

Digital Camera

WORLD

CHRISTMAS 2003
www.dcmag.co.uk

REVIEWED! 95 CAMERAS FROM £200
The UK's most trusted tests! We guarantee your ideal camera this Xmas

Your practical guide to better pictures

LUXURY EDITION

2 CDs
& FREE
GIFT!

ADDING MIST IN PHOTOSHOP

We show you how to enhance the atmosphere of your images with mist and rainbow effects!

MAKE YOUR OWN POP ART

Create a fabulous Warhol-style portrait image with our complete step-by-step walkthrough

PHOTOGRAPHER OF THE YEAR

Have you got what it takes to claim our £1,000 top prize?

CHRISTMAS SPECIAL

CREATIVE PEOPLE & PARTY PHOTOS

Go beyond the basics! We show you how to capture your best-ever Christmas photographs

■ Discover zoom burst effects! ■ How to shoot festive portraits ■ Exposure techniques for Xmas lights ■ Indoor flash explained ■ Take dynamic group shots **and more!**

IN-DEPTH REVIEWS



OLYMPUS E-1

The world's first 4/3rds SLR camera on trial inside!

PHOTOGRAPHY



TOP 10 MOUNTAINS

How to shoot the world's most photogenic peaks!

43 PAGES OF PHOTO HELP & TIPS

We solve all your photo, camera & PC problems!

AWARDS 2004 REVEALED

This year's best cameras, photo printers, accessories, software and more!

future
publishing

Media with passion

CHRISTMAS 2003
9 771479 001003

£4.99
PRINTED IN THE UK

your questions answered at www.dabs.com/help

over one million customers

huge selection of digital cameras, camcorders,

Who are we?

dabs.com is the UK's largest and most successful online retailer of IT and technology products, offering a huge selection of lines from the world's leading manufacturers, to over one million online customers all over the UK. Established in 1987, and typically processing over 5,000 customer orders everyday, we're your **number one choice** for the products you want, at prices you'll like, delivered direct to your door.

Award Winning Service

dabs.com's first class service, including a host of handy website tools, not only makes dealing with us easier and more hassle-free than ever before, but has also earned us a cabinet-full of prestigious awards such as FutureNet's "E-Company of the Year", PC Pro's "Online Reseller of the Year 2001 and 2002" and Personal

Computer World Magazine's "Best Online Shopping Site".

Don't just take our word for it!

See what countless satisfied dabs.com customers have to say about our service. Visit www.dabs.com/customerreviews

Easy to use

Our new-improved website is simple to use and it's quick and easy to find what you want thanks to our unique quicklinx code system. Every product in this advert has a quicklinx code next to it. Simply type the code into the box (top right of our homepage).



How to Order

To buy any of the products featured in this advertisement, you can order online using our new-look, new-improved website...

www.dabs.com

Use the special 'quicklinx' codes against every product advertised to quickly find the items you'd like to buy at www.dabs.com. Click the 'add to basket' button, followed by the 'go to checkout' button, to start the online buying process. Then follow the step by step instructions given, that will guide you through our express checkout service, depending on whether you're an existing customer or new to dabs.com.



We accept payment by
VISA, MasterCard or Switch

Credit Card Payments

Dabs Financial Services Ltd processes all card payments made by our customers for a fee of 2.5% included in the price paid. Customers paying by credit or debit card agree to pay this fee to Dabs Financial Services Ltd. The total price paid remains the same.

Business Terms & Conditions of Sale

Prices subject to change without notice - please visit www.dabs.com for latest prices. All prices exclude carriage. All prices are inclusive of VAT only. Non-EU/exempt pay the exclusive price. A full copy of the business terms & conditions is available on request. Calls are charged at national rate and may be monitored to ensure levels of service and for training purposes. (50-10-03) E&OE

Sony DSC-F717 Cyber-shot

quicklinx 25FSGT

www.dabs.com/sony

Combining point-and-shoot convenience with a host of manual photographic controls, this camera is sure to inspire digital photographers to expand their creativity.

- 5.0 Megapixels super HAD CCD
- 5 x Optical/10 x Digital Zoom
- Carl Zeiss Vario-Sonnar lens
- USB Terminal
- 32MB Memory Stick

only
£562.82
inc. VAT



Sony DSC-V1 Cyber-shot

quicklinx 2FG0GT

www.dabs.com/sony

The DSC-V1 is designed to deliver a large array of impressive features, letting your creativity take the reins.

- 1/1.8" 5.0 Effective Megapixels Super Sony HAD™ CCD
- 4 x Optical/4 x Smart Zoom
- Carl Zeiss Vario-Sonnar Lens
- 5-Area Multi-Point AF (Auto-Focus)
- NightShot™ Infrared System

MEMORY STICK PRO

SONY



Sony DSC-P10 Cyber-shot

quicklinx 2FCBGT

www.dabs.com/sony

You won't believe how much camera you get for your money with Sony's new Cyber-shot® DSC-P10.

- 1/1.8" 5.0 Effective Megapixels Super Sony HAD™ CCD
- 5 x Optical/4 x Smart Zoom
- 3-Area Multi-Point AF (Auto-Focus)
- Slow Shutter Noise Reduction
- Multi-Pattern Measuring

MEMORY STICK PRO

SONY



FinePix A205S Zoom Digital Camera

quicklinx 2TDQGT

www.dabs.com/fuji



As easy to use as your TV remote, and with the same point and shoot simplicity, the FinePix A205S Zoom camera will tame even the most timid technophobe. Equipped with a 3X Fujinon optical zoom lens, 2 million pixel CCD, video-output socket, increased battery life and smart Fujifilm design, the FinePix A205S Zoom delivers high quality images without the need to frown over an instruction booklet.

- 2.0 Megapixels
- 3 x Optical Zoom
- 2.5 x Digital Zoom
- 16Mb x-D
- Optional Cradle



only
£149.98
inc. VAT

Kodak DX6490 Digital Camera

quicklinx 2SRJGT

www.dabs.com/kodak



Go ahead, get up close. This lens was designed for digital.

The DX6490 matches the precision of the SCHNEIDER-KREUZNACH VARIOGON 10X Optical Zoom Lens with the intelligence of Kodak's new Color Science Image Processing Chip. The result is pure digital bliss. A camera that delivers in-depth detail and stunning color - from wide angle to true telephoto - all in one compact package.

- 4.0 Megapixels
- 10 x Optical Zoom
- 3 x Digital Zoom
- 16Mb Internal Memory

Kodak

see our website for full range and latest prices



quicklinx > shop faster

dabspoints with every purchase

visit: www.dabs.com**software editing, photo printers, memory, media + more****Canon Ixus i
Digital Camera**www.dabs.com/canon

Half the size of many mobile phones and weighing in at just 100g, this all-metal bodied dynamo packs 180 second video clips.

- 4.0 Megapixels
- 5.7 x Digital Zoom
- 32Mb SD Card

quicklinx	CANON (IXUS i)	inc. VAT
251VGT	Platinum Silver	249.99
251VGT	Piano Black	249.99
2530GT	Pearl White	249.99
252VGT	Cosmic Bronze	249.99

you can
Canononly
£249.99
inc. VAT**NEW**
Available in
4 colours!**Lexar Media**www.dabs.com/lexarfrom
£15.50
inc. VATBring out the ultra
performance of
your digital camera.

quicklinx	LEXAR	inc. VAT
251VGT	6 in 1 Card Reader	57.00
252VGT	128MB Compact Flash	24.00
2530GT	256MB High Speed Compact Flash	54.50
254VGT	64MB SmartMedia	15.50
255VGT	128MB Memory Stick	56.00
2560GT	128MB XD Picture Card	58.00
2570GT	256MB Secure Digital	64.00

**Epson RX-500
Photo All-in-One**www.dabs.com/epsononly
£217.37
inc. VAT

An all-in-one home photo centre that lets you scan, copy and print premium quality photos from digital or analogue collections. Technically, no compromises have been made - the Stylus Photo RX500 offers premium quality photo printing and high performance scanning in one space and cost saving solution. Faded photographs and damaged negatives can be restored and images can be easily stored and shared by scanning direct to memory cards even without being connected to a PC.

EPSON**USB 8 in 1 Media
Reader/Writer**www.dabs.comonly
£34.07
inc. VAT

Belkin USB 8-in-1 Media Reader/Writers enable you to drag and drop files, images, and music to your computer from your PDA or handheld, MP3 player, digital camera, or other device. You can edit, then store your files at transfer speeds of up to 12Mbps - 40 times faster than through a serial port. Featuring twin dedicated slots to accommodate 8 types of media: CompactFlash I, CompactFlash II, SmartMedia, Secure Digital, MultiMedia, IBM Microdrive, Memory Stick, and Memory Gate Memory Stick.

This great new advance from Belkin gives you the flexibility to work with virtually any type of media.

**Adobe Photoshop Elements
and Album Bundle**www.dabs.com/adobeonly
£74.00
inc. VAT

Adobe® Photoshop® Elements 2.0 plus Photoshop Album 2.0 software combines two powerful products in one affordable package to give you everything you need to make the most of your digital camera. Now you can edit and creatively enhance your photos, share them countless ways with family and friends, and always be able to instantly find any picture in your collection.

**Canon Powershot A80
Digital Camera**www.dabs.com/canononly
£294.99
inc. VAT

This Powershot A80 is stylish & compact, yet extremely powerful, packed full of features that you normally associate with more expensive cameras.

- 4.0 Megapixels
- 3 x Optical Zoom
- 3.6 x Digital Zoom
- 12 Shooting Modes
- Vari-angle LCD

you can
Canon**EOS 300D Digital SLR
Body and Lens Kit**www.dabs.com/canononly
£899.99
inc. VAT

The EOS 300D is the world's most affordable digital SLR. It boasts ease of use, high image quality and is compact and lightweight.

- 6.3 Megapixel CMOS sensor
- 7-point wide-area AF
- DIGIC processor
- 100-1600 ISO speed range
- EF-S 18-55mm f/3.5-5.6 lens

you can
Canon**Olympus Mju 400
Digital Camera**www.dabs.com/olympusonly
£279.99
inc. VAT

The attention grabber!

Get heads turning with the mju 400. Strikingly attractive, this weatherproof camera with full-metal body is the centre of attention in any situation. It also incorporates the latest technological innovations. Its precision 3x optical zoom lens combined with high-quality CCD with 4 million pixels ensure superb image clarity and sharpness.

- 4.0 Megapixels
- 3 x Optical Zoom
- 4 x Digital Zoom
- 5 Scene Modes

OLYMPUS**HP Photosmart 945
Digital Camera**www.dabs.com/hponly
£339.57
inc. VAT

The HP Photosmart 945 is a precision 8x optical zoom digital camera delivering superior image quality. With 56x total zoom and 5 MP resolution, it lets you capture incredible detail. It also has "Digital Flash" for photos the way you remember them.

- 5.3 MP resolution
- 56x total zoom (8x optical, 7x digital)
- 32 MB SD memory card supplied
- 5 cm (2") colour LCD display
- Optional docking station
- HP Photo & Imaging software with HP Memories Disc Creator

hp
invent**over 22,000 products at www.dabs.com**

INTRODUCING THE DIMAGE Z1



IT LOOKS LIKE NO OTHER CAMERA
YOU'VE SEEN BEFORE



IT HANDLES LIKE NO OTHER CAMERA
YOU'VE HANDLED BEFORE



ITS 40X ZOOM TAKES YOU DANGEROUSLY
CLOSE TO THE ACTION

The Dimage Z1. A new generation of digital camera that guarantees you get a better picture.

Just when you thought you'd seen it all before... bingo, along comes the 3.2 megapixel Dimage Z1. A camera that, although tiny in size, positively brims with the very latest in digital technology.

And it's dead easy to use. No crash course in digital technology required here.

40x A Mega 10x Optical Zoom lens extending to a massive 40x digital zoom.

Now thanks to the Z1's incredible zoom power you need never worry about getting closer to your subject again. Just press the zoom button and the big, no let's be honest, mega 38-380mm lens will take you all the way in. Ten times closer in fact. And if that's not close enough for you, you can extend it digitally to a truly massive 40x. That's 38-1520mm in 35mm terms.

It really is a Mega Zoom that's super smooth and very very quick.

RAF A Rapid Auto Focus system means you always capture the picture you want... in focus.

In countless situations, autofocus performance can make all the difference between a great shot and a missed opportunity. But not anymore. Enter Minolta's Rapid AF.

A system that uses a sixty frames per second sampling rate to determine the optimum focus. Twice the rate of most digital cameras on the market today.

So now not only will you always get your shot... you'll always get your shot in focus... fast.

UHS+PC Ultra High Speed plus Progressive Capture.

Now thanks to UHS+PC you can capture entire sequences at a blazing 10 frames per second and, when using progressive capture, keep shooting endlessly until you know you've got the shot you want. Never again will you find yourself saying, "I just missed it!"

TV S-VHS quality movies complete with audio.

At its highest movie recording resolution, the Dimage Z1 produces clips with S-VHS quality that, as you might expect, look and sound great on TV. And, for all you night owls, it even offers high picture quality when shooting in dim light with its Night Movie Mode.

Complete control over all situations.

If you want complete control switch to aperture-priority, shutter-priority, or manual.

If you don't, switch to Program mode and let the Z1 do the lot.

So, no worries just more time for you to concentrate on getting the shot you want.

A fantastic package.

A truly Mega Zoom, Rapid Auto-Focus (down to 4cms), Ultra High Speed image capture, S-VHS quality movies, and built-in flash combine to make this a truly outstanding camera for every occasion. It's all here in the Z1, and it's all yours for an unbelievable price of... wait for it... just £329.99

THE DIMAGE Z1
THE NEXT GENERATION OF DIGITAL CAMERA



Welcome

Welcome to DCM and a hearty Merry Christmas to you all. The festive season is a great time of year for photographers, even though it's getting a bit chilly outside!

The photographs we wish we'd taken this month!



Kai Wood
Deputy Art Editor
Really interesting sunset shot by Graham Henshaw that avoids the cheesy clichés and has a great range of colours.

SEE THIS SUNSET IN THIS MONTH'S PHOTOGRAPHER OF THE YEAR, ON PAGE 52

Adam Evans
Editor

Ah, Christmas. A blessed time of peace, celebration, goodwill to all men – and rock and roll! Festive portraits just don't get any more inventive than this.

SEE THIS SHOT IN THE BIG PICTURE, ON PAGE 146



With plenty of spare time to get the camera out and persuade bored relatives to pose, Christmas provides a great opportunity to take some interesting shots. To help you in your quest, our feature this month is on just that subject, namely making the most of all the photogenic opportunities that Christmas has to offer. Whether it's capturing the magic of a winter fair at dusk or taking an intimate family portrait, we've got hints, tips and suggestions to inspire you to take your best ever Yuletide shots.

Of course, even all this may not be enough to keep you fully occupied over the holidays, so we've gathered together our usual bulging sack of Photoshop and Paint Shop Pro goodies for you to perfect your image-editing skills. Not only do we have tutorials galore in the magazine (including the wonderful Warhol Pop Art project, on page 56) and extra video lessons on the discs – but we also have the fantastic Photoshop and Paint Shop Pro Expansion Packs, chock full of over 1,400 plug-ins and extras for you to use this Christmas. Enjoy!

Best wishes

Adam Evans Editor
editor.dcm@futurenet.co.uk



The festive season is a great time of year for photographers

TELL US WHAT YOU THINK OF THIS AND OTHER ISSUES ON OUR FORUMS
WWW.DCMAG.CO.UK

Meet the team...



ANDREA THOMPSON
Deputy Editor

ROB BOWEN
Art Editor

ADAM EVANS
Editor

LEE RABERCHT
Operations Editor

KAI WOOD
Deputy Art Editor

Our promise to you

- We will show you how to capture and create better pictures, give clear, independent buying recommendations on the latest kit, and deliver two CDs or one DVD packed with the best PC software.
- We use boxes, tips, quick fixes, quality photography, walkthroughs and diagrams to show you how to improve your photographic and image-editing skills.
- We have a cast-iron policy of editorial independence. All our kit is reviewed as-sold. We discourage our journalists from accepting gifts from advertisers.
- We welcome your opinions on the magazine, ideas for articles, photography, thoughts and questions.
- Send them in today – see the email addresses opposite.

Meet your experts



TIM DALY Photographer and writer
Tim is one of the UK's leading digital photography experts. He's written numerous books on the subject, and his photos have exhibited across Europe



STEVE BAVISTER Photographer and editor
Steve is one of the UK's best-known photographic writers. He has edited Photo Answers in the past, and now writes for us every month



AIDAN O'ROURKE Technical expert
Aidan is a freelance photographer and contributor to the Manchester Evening News. He lectures on digital photography around the UK



GEORGE CAIRNS Image-editing guru
George is an expert in producing amazing artwork using Photoshop. He welcomes your suggestions for future creative projects...



ROD LAWTON Camera expert
Rod has reviewed virtually every digital camera ever released. A self-confessed technical nut, he reviews five new cameras each and every month for us



BARRY JACKSON Digital artist and Photoshop guru
Barry combines his digital camera, computer and Adobe Photoshop to create his simple but stunning pieces of art

Get in touch...

- Articles/ideas for publication and general enquires
editor.dcm@futurenet.co.uk
- Customer services/subscriptions departments
customerservice@futurenet.co.uk

Visit us online at www.dcmag.co.uk

Contents DCM#15

What's hot inside your magazine this Christmas

CHRISTMAS SPECIAL

CREATIVE PEOPLE & PARTY PHOTOS

Go beyond the basics! We show you how to capture your best-ever Christmas photographs

STARTS PAGE
22



PC & INTERNET

p103

PictureMan 3.1

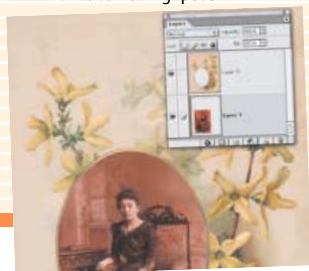
PAGE 106 A new way of working with photos using this processing, editing and retouching tool

FocusFixer

PAGE 107 Use FocusFixer to fix all your out-of-focus photographs, with the simple click of a button

Antique mounts

PAGE 108 Take an old mount and transform it into something special...



PhotoImpact 6

PAGE 104 Create your own web graphics and post them on your online gallery, using PhotoImpact



Buyers' guide

THE ULTIMATE GUIDE TO SHOPPING AROUND PAGE 111

Some features and functions are must-haves for the creative digital photographer. We've trawled our review pages to give you the most comprehensive buyers' guide to digital cameras on the market



Getup&go

Winter landscapes, London's gleaming skyline and the thrills of ice hockey
PLUS: 4 free tip cards

PULL OUT
SECTION
FIND IT AFTER
p98

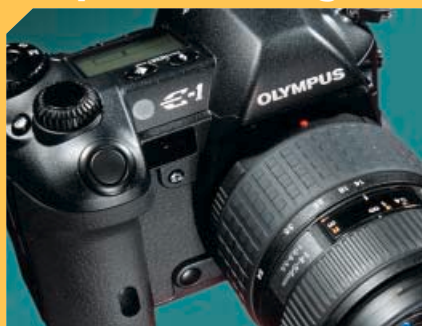


4 FREE
TIPS CARDS
FOR YOU TO
COLLECT AND
KEEP!



REVIEWS p33

Independent testing



We review Olympus's long-awaited 4/3rds camera, the E-1 SLR **p34**



We reveal the big winners in the first annual Digital Camera Magazine Awards **p18**



THE SONY MAVICA CD500 **p42**



ADOBE PHOTOSHOP CS **p44**

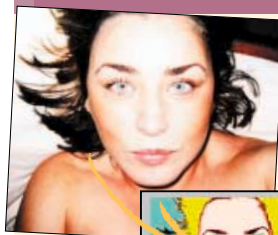
REVIEWED THIS MONTH...

Olympus E-1	p34
Pentax Optio 33WR	p38
Kodak DX6490	p40
Sony Mavica CD500	p42
Adobe Photoshop CS	p44
CorelDraw Essentials 2	p45
Ulead PhotoImpact XL	p45
Wacom Graphire 3 Studio	p45

PHOTOSHOP

NEW SECTION
GET CREATIVE IN
PHOTOSHOP

p55



Pop Art portrait

Digital photo artist, **Barry Jackson**, uses basic filters and blends to create a fabulous Warhol-style portrait

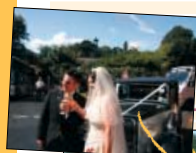
PAGE
56



Add atmosphere

Derek Lea alters the feeling of an image by adding wisps of mist with layers and the Alpha channel

PAGE
62



Remove elements

Get rid of unwanted people and objects from your image using the Clone and Selection tools

PAGE
66



Reader photos

Tom Ang and **Adam Evans** cast a critical eye over this month's selection of reader's Photoshop submissions

PAGE
68

REGULARS

HotShots	The best photos we've seen this month	p10
Eyewitness	The latest breaking news	p12
Trailblazers	Travel shots from around the world	p50
Viewfinder	Reader letters	p48
Subscribe	Save money and don't miss an issue!	p94
Back issues	Complete your collection	p110
Next month	The lowdown on issue 16	p145
Back page	The big picture	p146

PAINT SHOP PRO

NEW SECTION
GET CREATIVE IN
PAINT SHOP PRO

p73



A-Z of layers

Vector layers aren't just for those interested in drawing. **Lori Davis** examines how to use them

PAGE
74

Remove backgrounds

How to isolate an object from its background

PAGE
80



Warping in PSP

Add some Dali-style distortion to your images

PAGE
82



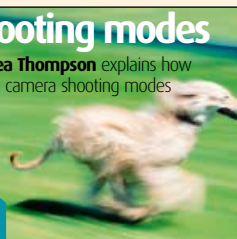
SHOOT

p85

Shooting modes

Andrea Thompson explains how to use camera shooting modes

PAGE
86



Top ten mountains

Climb new heights with your photography

PAGE
88



Q&A

This month, **Aidan O'Rourke** gives advice on filters, cleaning up scans and brightening dull photographs

Your photos

Adam Evans and **Tom Ang** give us their expert analysis of some more reader photographs

Photo Clinic

Our technical guru, **Andrea Thompson**, gives her advice on how readers can improve their photos

Setting up a studio

In the third and final part of our series, **Tim Daly** explains how to control still-life lighting

TURN OVER FOR FULL CD CONTENTS

UK's best discs

More videos, full software, project files and plug-ins than any other magazine!

PictureMan 3.1

Fully-featured image editor with 100 cool filters to improve your pics!

- Processing tools
- Subtle editing
- Retouching effects



**FULL
SOFTWARE
WORTH
\$199**

DISC CONTENTS



Full software [Disc A]
PictureMan 3.1

Trial software
PictureMan 4

Tutorial files
Creating misty effects
Eliminating unwanted backgrounds
Erasing backgrounds
PSP layers guide
Pop Art
Warping in Paint Shop Pro

Tutorial videos
Eliminating Unwanted backgrounds
Creating misty effects
Erasing backgrounds



Full software [Disc B]
FocusFixer 1.0.2

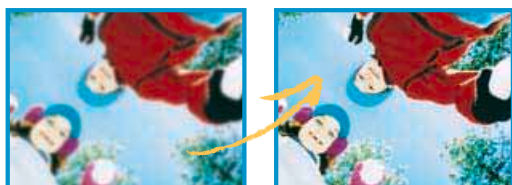
Trial software
FocusFixer 1.2.2
Paint Shop Pro 8
Photo Album 4

Photoshop Extras from
Cybia Collection
GraphicXtras Collection
Photoshop Roadmap
Antonino Perricone
Digital Film Tools
Flaming Pear
namesuppressed
Nik Multimedia
and more

Tutorial videos
Wrecking London
UV Tutorial

FocusFixer

Fix out-of-focus photographs with the click of a button!

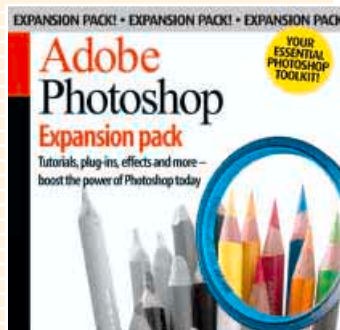


- Restore images
- Adjust sharpness
- Simple to control

BONUS ON DISC 2

Photoshop Expansion pack!

Photoshop-compatible plug-ins and extras! It's everything you need to get better results!



FocusFixer Full [Mac & PC] ■ Paint Shop Pro 8 ■ Photo Album 4 ■ Plus Paint Shop Pro 8 extras, actions, brushes, texture brushes and plug-ins from Cybia. Styles, actions, patterns, shapes, brushes and plug-ins from GraphicXtras. Layer styles and Paper backgrounds from Photoshop Roadmap. Plus, a selection of plug-ins from Antonino Perricone; Digital Film Tools; Flaming pear; namesuppressed; Nik Multimedia; Power Retouce; Richard Rosenman; and theimagingfactory.

VIDEO TUTORIALS!

4 in-depth video lessons

Get creative with Photoshop

- Create atmospheric lighting effects
- Clone out unwanted objects
- Professional cutouts – the easy way
- Create an amazing wrecked city



BONUS DVD FILES

Trial software
ABC Amber Image [PC]
Converter [PC]
Color Wheel Pro [PC]
Dog Waffle 1.11b [PC]
FastPic 1.1 [PC]
FlaxMenu [PC]
HyperSnap-DX 5.3 [PC]
Iseult 1.1
monkeyphoto [PC]
Pattern Only Scrapbook
Buddy [PC/Mac]
PhotoTags 2.5 [PC]
Photolighting 2.3 [PC]
PhotoMeister
Professional 2.2 [PC]

Poster Printery
Seltco Photolab [PC]
SlideshowPilot [PC]
ExhibitionX 2.3 [Mac]
Gammawork 1.5.1 [OSX]
iPhoto Diet [OSX]
FR-Photostudio [OSX]
Portraits and Prints [Mac]
Supaimage 2.1 [Mac]
XSee [OSX]
TVCD Creator [PC]

PLUS Video tutorials
Depth of Field
Replacing backgrounds

DISC SUPPORT

In the event of a disc fault, please see the back of your disc case for help and contacts



SONY

**Think twice before you
burn an embarrassing DVD.
Now everyone can watch it.**

The DRX510UL allows you to backup files and burn music, pictures and home movies onto DVD direct from your computer. The drive's unique dual compatibility means you can do it in both DVD-RW and DVD+RW formats. So now the bottle of tequila/ trampoline incident can be enjoyed by everyone.

'Sony' is a registered trademark of the Sony Corporation, Japan.
Warning: the recording and playback of copyright protected material
may be unlawful if done without permission of the copyright holder.

www.sony.co.uk

You make it a Sony

Hotshots

Images with impact



SHOT OF THE MONTH

ROBERT GANZ REVERBERATIONS

"The red-winged blackbird was sitting on a branch alternating between screeching out its call and sitting peacefully. I took two shots of both situations. In Photoshop, I layered each shot and put the raucous shadow behind the peaceful bird. I then used filters and painterly effects."

Canon EOS 10D

[e] robert.g@infosilem.com

POST YOUR COMMENTS ONLINE!

www.dcmag.co.uk/hotshots15



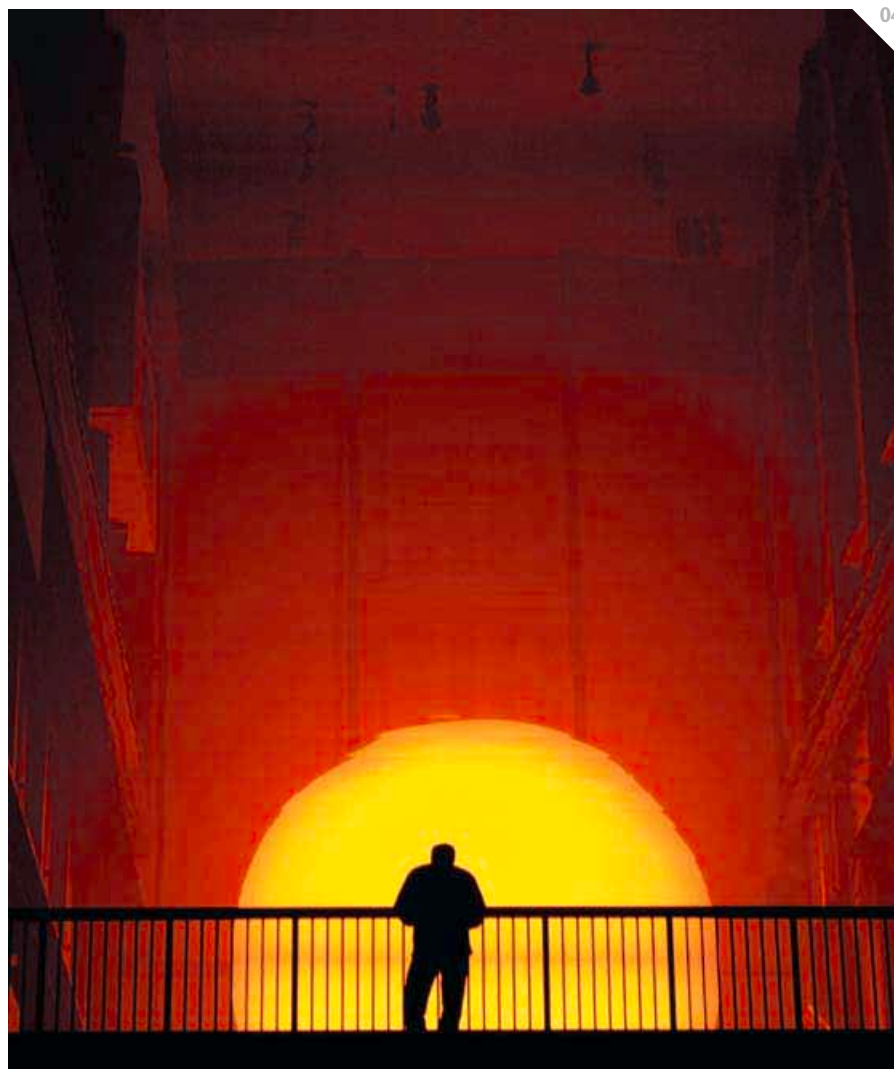
02

BOB JONES Fun, Fun, Fun!

"This photograph was shot at the fun fair in Rhyl, North Wales in August, on a morning of changeable weather, sunshine and intermittent heavy showers."

Canon EOS 10D, Sigma 70.0-200.0mm @ 70.0mm

[e] www.ImagineWales.com



04

03



THOMAS McCONVILLE The Bridge

"This is the Vincent Thomas Bridge, Los Angeles. In the original image there was a dreadful orange cast. I made a selection in Photoshop around the vehicle light trails then inversed it, removing all the colour in the rest of the image."

Canon D60 & Canon EF 70-200mm 2.8L IS

[e] theimagegroup1@earthlink.net

TERRY MCGINNIS (Artificial) Sunset for Hollywood Hero

"Taken in the Tate Modern, London. The subject is Olafur Eliasson's The Weather Project. I used Paint Shop Pro to edit the picture's colours and size."

Canon EOS 300d

[e] terrymcginnis@ntlworld.com

NOW SEND US YOURS!

Email us a JPEG (max 500K) of your best shot! Include your name, the title of the shot and the digital camera you used. The best photo each month wins a 128MB Crucial memory card (all types available) and Crucial USB card reader!



EyeWitness

Got a news story? Email editor.dcm@futurenet.co.uk



SIGMA S10 ON ITS WAY

Sigma's range of Foveon-chip digital cameras has evolved



21ST CENTURY PHOTO ALBUM

Epson releases a photo album with a 3.8in LCD and 10GB hard disk



SHOOTING THE NORTHERN LIGHTS

Solar storm gives rise to the most incredible show the world has ever seen

Second-generation Sigma SD10

At last, another digital SLR based on Foveon's imaging technology

How can you expect it to have improved on the SD9?

Sigma's range of Foveon-chip digital cameras has evolved, with the launch of the second-generation SD10. We'll bring you our verdict on the new camera when we review it soon, but how can you expect it to have improved on its predecessor, the SD9?

Back in the early part of 2003, we tested the pioneering new SD9, which promised a

breakthrough in imaging technology, namely Foveon. Conventional digital SLRs capture colours in a grid-like structure of pixels, with a number of pixels each for red, green and blue. Foveon's radical new 3MP chip captured all three colours at each pixel site, in theory promising sharper, crisper and cleaner images.

We gave the camera 79% in our in-depth review (DCM 6). Although the imaging technology had clear potential, it was still early days in its evolution and we said: "Between them, the SD9 and the Foveon chip have introduced a dramatically different imaging technology at a highly affordable price. As yet, though, the image quality doesn't live up to its promise. You'll need to do a lot of image-editing work to reveal its potential and most people want good results out of the box."

The updated 10M X3 sensor in the new SD10 promises improved dynamic range, colour response and sensitivity. Sigma also claims extended ISO sensitivity in its new SD10 model longer exposures, 1/3 EV steps, wireless TTL flash support and image processing enhancements provided by Sigma Photo Pro 2.0.

Pricing: Sigma SD10 Body SRP £1,100; Sigma SD10 imaging kit 18-50mm F3.5-5.6 DC £1,150; Sigma SD10 digital twin zoom kit (18-50mm F3.5-5.6 DC+55-200mm F4-5.6 DC) SRP £1,250.



Find out more about Sigma's new SD10 at www.sigma-imaging-uk.com

QUICK SHOTS

KONICA MINOLTA

This issue we see the launch of the first digital camera since the amalgamation of Konica and Minolta. The Revio KD-420Z, retailing around the £300 mark, is a 4MP model with 3x optical zoom, and the camera boasts a speedy start-up time of just 0.9 seconds. Go to www.konica-minolta.co.uk

CANON BUNDLES CARD PRINTERS

Canon is keen to promote the idea of direct printing, selling special bundles of its digital cameras with its CP-200 Card Photo Printer. These bundle offers apply to the PowerShot A300 and A70 cameras. The printer produces 4 x 6-inch high-gloss photos and the handy unit connects to cameras directly via a USB cable. The offer runs until the end of the year and the A70 bundle costs £299 with the higher-end A300 costing £399.

PUT CELEBS IN THE FRAME

Celebrity Mix is a new internet service that allows those with camera phones or digital cameras to send in their photos and 'mix' them with images of celebrities. Get more details from www.myworld.co.uk

Quality CD storage

Nearly half of digital snaps are now stored on CD

STORAGE

In response to our story last month about unbranded CD-Rs failing within a couple of years, French CD manufacturer Hi-Space is extolling the virtues of gold CD-Rs, on the back of an interesting survey about how we store our digital photographs. We can reveal that a huge 46% of all consumers' digital photos are now stored on recordable CDs, and only 11% of photos taken are printed to hard copy. Hi-Space surveyed 860 photographers and now warns the public that not all CDs are of the same high quality.

"There's a misconception that one CD-R is much like any other but the current influx of low-cost disks is in danger of damaging the reputation of the CD-R over the next few years as people learn about the quality difference the hard way," says Paul Chantry, UK sales manager for HiSpace.

Information supplied by www.dabs.com

Best sellers

Top camera in the market
Sony DSC-P52 Cyber-shot
£166.85



Sub-£150
Kodak Easyshare CX6200
£85.99



Sub-£300
DSC-P52 Cyber-shot
£166.85



Sub-£500
Sony DSC-V1 Cyber-shot
£449.99



Over-£500
Canon EOS 300D SLR (body and lens)
£899.99



HOW THE TECHNOLOGY WORKS

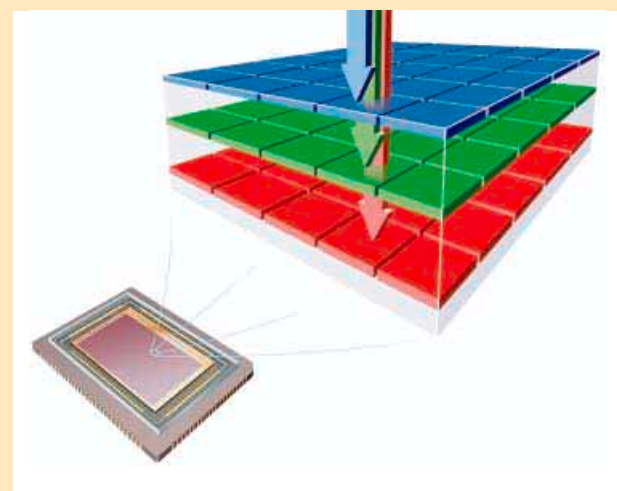
FOVEON X3 TECHNOLOGY VS CONVENTIONAL DIGITAL SLR

Conventional CCDs and CMOS chips only respond to the intensity of light, not its colour. That's why digital cameras need RGB filters overlaid on top of the chip.

Essentially, one picture sensor in four has a red filter over it, one has a blue filter and the other two have a green filter (the human eye is more sensitive to green so it needs greater emphasis). When the camera processes the image, it has to

interpolate the colour information – essentially 'guess' at the colour to fill the gaps. Each red sensor, for example, is used as the basis for calculating the red component in three more around it.

The revolutionary design of Foveon X3 direct image sensors features three layers of pixel sensors. The layers are embedded in silicon to take advantage of the fact that red, green, and blue light penetrate silicon to different depths – forming the world's first direct image sensor.



Competition herds the top talent

Winners capture essence of British farming in a photo contest

SOFTWARE

Winners of the British Farming photography competition have now been announced. The hotly contested competition asked entrants to capture the essence of the beauty of agriculture and nature in balance. Since its launch in April, the competition has attracted around 500 entries, the most notable of which dealt with a diverse range of subject matters, from pictures of sheep and cows, and arable fields

and hay bales, through to tractors and close-ups of ladybirds.

The winner in the adult age group scooped a £1,000 cash prize for snapper Gordon Nicholson from Wigan. His was an image of a cow with calf in Swaledale. Farmer's daughter Alice Helliwell from Derbyshire took home the £500 winner's jackpot for the children's category, with her image of the construction process of a dry-stone wall.



The two winning entries in the adult and children's categories

New Cybershots

Sony cameras target the youth market and prosumers

THE DSC-T1 OOZES STYLE AND QUALITY

HARDWARE

Sony's new duo of Cybershots is as good looking and desirable as you would expect from the style giant. But what else do they offer the consumer with cash in the attic? Well, the DSC-U40 extends the range of tiny pocket-sized cameras, aimed at the

younger market and ideal for capturing friends on camera while out and about. It's 2MP and delivers photo-quality images in a tiny frame, which even allows space for a small LCD.

And then to the top-of-the-range, the DSC-T1 oozes style and quality and is for the more discerning photographer. The 5MP slim model's components have been scaled down as far as possible to fit a slimmer case and yet Sony has still found room to position a large and bright LCD screen. On top of all that, the T1 features a new top-of-the-range Carl Zeiss-Tessar lens. Check out www.sony.co.uk for more info.



Is the Cybershot DSC-U40 the last word in tiny technology? Sony claims it's about as portable as a quality camera can get



5th November, Finland

You may have seen some spectacular fireworks on Bonfire Night but it's doubtful that you saw anything to compare with the Aurora Borealis, the Northern Lights, prompted to amazing heights by the recent solar storm.

Behindtheimage



Tell us what you think! Our website forum at dcmag.co.uk is just the place. Add your comments, ideas and more and join the Digital Camera Magazine club!



Straight to the heart of the chatter



SPARROW'S ARROW

Mark recalls his days as a trainee photographer...

Many years ago – not long after wet collodion plates were superseded by nitrate film – I decided to commence training as a photographer. It had been a deliberate decision because photography seemed like the easiest way to earn a living. It would, I fondly imagined, be a life spent lingering on the corner of easy street.

I imagined that I would begin by photographing the odd society wedding before moving into the world of glamour and fashion photography. I'd drive a Mercedes and would wear a raffish, knotted handkerchief around my neck. Life would be sweet. David Bailey would call me for my advice and I would exchange witticisms with Tony Armstrong Jones and Lord Lichfield.

The cruel reality of life as a trainee photographer was somewhat different. Still, I tried to look on the bright side. At least I wasn't a press photographer... or 'toggie' as they're sometimes known. In the pecking order of life, the press photographer occupies a slot somewhere between plankton and protozoa. They are the great unwashed, the untouchables, the lowest caste of photographer.

To be a press photographer is to be consigned to hours of boredom. As a profession, it generally attracts the wrong sort... the kind of person who is perfectly happy to lie in wait for a minor C-list celeb to crawl from

an Islington bedsit, or to stalk a soap star who's just finished eating pecorino tortellini in some North London eatery. The press photographer – or paparazzi as he is more commonly known – is well known as the scum of the photographic world.

I once tried my hand at press work... just to see what it was like. It was back in 1992 when John Major was touring the country with his infamous soap box. I joined the scrum of press toggies that was following the prime minister. We arrived in some provincial town centre and I soon found myself wedged between two very burly types with their battered Nikons and beaten-up flash-guns, all bound up with Duck Tape. My feet left the ground and didn't return there for a full 30 minutes as I was carried off in the pack, sandwiched between the two toggies. It was terrifying. They were like animals – baying hounds intent on their quarry, no matter was in their way.

It was that experience that finally caused me to shy away from full-time photography. I figured that if those 'toggies' could get award-winning shots in the pouring rain, with crap light, while being crushed to death by their colleagues, what chance did I have of ever being a top toggie?

I would have taken my hat off to those press guys that day... if I could have got my arms free!

Mark Sparrow is an experienced film and digital photographer. Billions of years ago, when he was 18, he qualified as the youngest ever

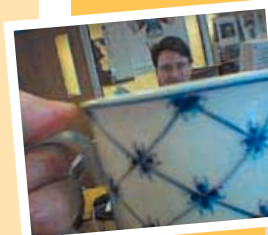
Member of the Master Photographers' Association. Discuss the column at www.dcmag.co.uk/forums or email mark.sparrow@futurenet.co.uk

THE CAMERA IS EMINENTLY PORTABLE, AND IS ABOUT THE SIZE YOU CAN SLIP INTO A POCKET

MOBILE SNAPPER



SIMPLY RED
No white balance? No problem, says Mike Taylor



WHITE, NO SUGAR
Grant Askey finds something unusual in his tea

Send us your mobile phone photos and we'll print them! Email to editor.dcm@futurenet.co.uk

New Fuji still camera conjures up video too

The F420 is slim, high quality and it delivers 30 frames per second video

HARDWARE Fuji's new F420 Zoom is smaller and shinier than ever before and features the company's Super CCD High Resolution technology. The camera is a 3.1MP model that comes with a dock for charging and transferring. And the icing on the proverbial cake is that this still camera can capture video at 30 frames per second, ensuring what Fuji claims is silky-smooth movie clips. You also get a 3x optical zoom lens and a useful voice recorder, which can save up to 30 seconds of audio photo labelling information.

The camera is eminently portable, and is about the size you can slip into a pocket rather than a bag. It has a good-sized screen and its portability is made all the more usable by its PictBridge compatibility, the industry-standard technology for printing directly from a camera to a printer, meaning you can output results on the move.

The Super CCD High Resolution is a technology of which FujiFilm is very proud and the company claims a number of benefits for advanced digital photographers, including high quality, fast shutter speeds and good low light results.

Adrian Clarke, FujiFilm's Director of Consumer Products, says of the camera: "...heavyweight picture power, contained within a small metal shell. The FinePix F420 Zoom crams greater firepower into an even more discreet package. This camera is



Firepower and class in one package, according to maker, FujiFilm

that rarest of combinations – it looks great wherever you take it, and you can be sure the pictures will, too."

Of course, he's bound to say that but you can find out more at www.fujifilm.co.uk





Digital camera technology has just taken a massive step backwards.

The new Olympus C-5060 Wide Zoom is the first compact digital camera with a 27mm extra wide angle lens. This not only allows you to get more of your subject in frame but also gives you a massive depth of field, opening up all sorts of creative opportunities. Additional lenses can be added via simple bayonet fixings and a swivelling LCD screen gives even more flexibility. And with 5 million effective pixels and full user control, the C-5060 Wide Zoom is the future of digital photography. For details telephone 0800 072 0070 or visit www.olympus.co.uk.



OLYMPUS

Your Vision, Our Future

QUICK SHOTS

IT'S NOT ALL SUMS, SUMS, SUMS
Perhaps the biggest challenge for any digital photography, professional or amateur is to make a dull subject look interesting. And if that is your flair, this could be right up your alley. The Association of Chartered Certified Accountants is offering photography students worldwide the chance to have their work featured in a new range of corporate adverts. So if you think you can take engaging images of ACCA members at work, you'll get the chance to showcase your portfolio on ACCA's hugely populated website in return for your hard work. Have a look at the preview online for more information.
www.accaglobal.com/vision

NEW GALLERY TO SHOWCASE NEW TALENT
A new photographic gallery is opening in Clerkenwell, London, at the end of November. It aims to showcase the talents of photographers and raise photography's profile as an artform and promises to showcase the talents of as yet un-exhibited photographers as well as established ones. The opening show features eight photographers whose works concentrate on still life, landscapes, and wildlife among other subjects. Take a look at the line-up at www.hoppersgallery.co.uk or email gallery@hoppersgallery.co.uk if you want to put forward your portfolio.

21st century photo album

Epson releases a photo album with a 3.8in LCD and 10GB hard disk

PERIPHERAL

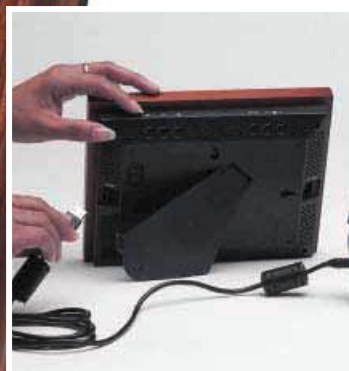
Everything is digital these days – even the humble photo album has had a makeover. So no more the dusty tome propping up the bookcase, with creased, folded and badly stuck dog-eared photos in it from holidays past. Next time you go away why not take something like the new Epson PhotoPC P-1000? It's a compact device consisting of a 3.8 LCD

screen for viewing your images and a whopping 10GB hard disk for storing thousands of shots while on the move.

You can run slideshows of your snaps once you've downloaded them from your camera via the USB lead and then of course you can print straight from the device or even burn the shots to CD to back them up securely. Available now, the unit will set you back just a whisker under £500.



View and store thousands of shots on the move



Gadgets galore

From webcams to credit card cameras, there's something for everyone

HARDWARE

Just in time for the Christmas rush, but only just, Logitech has a raft of goodies just waiting to be wrapped up and stuck under the Christmas tree. And a couple of them are particularly perfect for keen photographers out there. Firstly the Pocket Digital 130, Logitech's credit card sized camera now incorporates a flash. With fun firmly in mind, the camera comes in just under the magic £100 barrier, has true 1.3MP resolution and its in-built memory can store up to top quality images. The camera has a strobe flash and is available now.

Second up is the QuickCam Sphere Webcam. Along with looking pretty cool on the non-nerdy desktop, this camera can physically turn 140 degrees side to side and 60 degrees up and down so that you can keep your subject's face on camera at all times. Logitech is a leader in Webcam technology and this one is claimed, by the company, to be the only model available that can physically move to keep a

person's face automatically centred, with its Logitech proprietary robot-like tracking software that allows the camera to automatically follow a person's face. The £99.99 camera has a zoom, which allows more accurate display of facial expressions, and it captures still images of up to 1.3MP. You can find out more about both products now at www.logitech.com



Fun shots wherever you go, courtesy of the new Pocket Digital 130

WHAT'S ON

Mark Harris rounds up the latest exhibitions, events and training to get you out from behind your PC.

EXHIBITIONS

The Office : Group Show

What: Deconstructing the corporate environment with images of the designs, iconographies and people who inhabit the business world. Humorous, thought-provoking and revealing in equal measure.

Where: The Photographers' Gallery, Newport Street, London

When: Until 25th January 2004

Price: Free

Details: 020 7831 1772

Schweppes Photographic Portrait Prize 2003

What: The leading showcase for new talent in portrait photography, featuring the prize-winning images plus a selection of the strongest runners-up.

Where: Porter Gallery, The National Portrait Gallery, London

When: Until 15th February 2004

Price: Free

Details: 020 7306 0055

Dalziel & Scullion : Genus

What: This breathtaking and moving installation contains over a thousand images from the Museum's archives, spanning the history of photography from its earliest practitioners to recent press shots.

Where: National Museum of Photography, Film and Television, Bradford

When: Until 25th January 2004

Price: Free

Details: 0870 7010201

Cindy Sherman

What: Since the mid-1970s, Sherman has been taking photographs of herself in a variety of costumes and roles, questioning the portrayal of women in modern art.

Where: Scottish National Gallery of Modern Art, Belford Road, Edinburgh

When: Until 7th March, 2003

Price: £4, £3 concessions

Details: 0131 624 6200

Circling The Square

What: Celebrating the history of Trafalgar Square through the eyes of photographers such as Henri Cartier Bresson, Don McCullin and John Benton-Harris.

Where: Studio Gallery, The National Portrait Gallery, London

When: Until February 2004

Price: Free

Details: 020 7306 0055

British Gas Wildlife Photographer Of The Year

What: Travelling exhibition showing the 106 winning and shortlisted entries, selected from over 20,500 entries from more than 60 countries.

Where: Natural History Museum, and regional venues around UK

When: Varies, until April 2004 at



Grey Area © Sofia Hulten

Natural History Museum

Price: Varies. £5/£3 concessions at

Natural History Museum

Details: http://flood.nhm.ac.uk/cgi-bin/wildwin/2002/tour_index.html

COMPETITIONS

Soil Association Photo Competition 2003

What: Get your hands dirty and shoot an image that promotes organic food or farming. Top prize is a HP Photosmart 620 digicam and your work will be used to promote the Soil Association.

When: Until 1st March 2004

Price: Free entry.

Details: Download an entry form from www.soilassociation.org

TRAINING

Getting Started In Digital Photography

What: Introduce a friend to digital imaging with this taster day for novices. They'll learn how to shoot, download and print out their best images.

Where: National Museum of Photography, Film and Television, Bradford

When: 3.30pm, 14th January 2004

Price: £15 or £12 concessions

Details: 020 0870 7010201

EVENTS

Focus On Imaging 2004

What: Europe's largest annual imaging show, covering hardware, software and techniques from image capture to output. Expect over 200 exhibitors and plenty of product launches.

Where: The National Exhibition Centre, Birmingham

When: 22nd to 25th February 2004

Price: £6

Details: 0208 681 2619

Hold The Front Page

What: Join a 1940s picture editor and discover the story of the Blitz through photographs. Suitable for the family.

Where: National Museum of Photography, Film and Television, Bradford

When: Sundays from 21st December to 4th January 2004

Price: Free

Details: 0870 7010201



Pulling power from Pentax.

With a pin-sharp 5x optical zoom and high-detail 5 megapixel resolution, the Pentax Optio 555 brings digital excellence to the max. It's superbly equipped with a host of innovative features and functions to handle most imaging opportunities. Including high quality video clips and sound. Beautifully styled and a dream to handle, it delivers stunning results with absolute ease. The Pentax Optio 555 – just hold it and you're hooked. Visit www.pentax.co.uk or phone 01753 792731.



The new Optio 555. Everywhere now.

PENTAX

DCM AWARDS 2004

In our first annual awards feature, we reveal the best kit for the year ahead...

DCM
AWARDS
2004

THE YEAR'S BEST KIT

Christmas may be just around the corner but that doesn't mean you've got to go out and panic buy. Take your time and do your research – or, if you're in a hurry, let us give you the inside scoop on the very best kit for the year ahead. Garnered from the pages and experts of Digital Camera Magazine, the products on the next few pages are the choicest picks from seven categories of digital photography essentials. As well as the best cameras, we reveal the top printers, scanners, tripods and software to take you into 2004.

The categories

Before the judging started, we thought long and hard about the categories that you, our readers, would want to see. All too often in all branches of the media, awards are given purely in order to please advertisers. Not here – all our choices have been made by the editorial team on Digital Camera Magazine with no input whatsoever from anyone else. Correspondingly, our camera categories are designed specifically for you, with digital

SLRs, mid-range and consumer cameras all getting their own awards. Manufacturers like to pigeonhole buyers into professionals, prosumers and consumers. We know that you're all different, that all your needs are different, and our choice of categories – and the winning cameras – reflects this knowledge.

In addition to the three camera categories, we have four covering essential hardware and software, including everyone's most essential piece of metal, the tripod. Printers and scanners are vital bits of kit for the new breed of digital photographer, so if you haven't yet taken the plunge – or if your existing models are looking worn – we'll tell you the very best models to go for. Of course, it's not all about computer hardware. You'll also need software with which to get the best from your images. Rather than give Photoshop yet another award it doesn't need, we've decided to assume its position as top dog in the image editing world and concentrate on telling you about the very best budget software. But that's enough talk – time for the awards!

Best Digital SLR Camera



DCM
AWARDS
2004

WINNER! BEST DSLR

DCM
AWARDS
2004

RUNNER UP BEST DSLR

DCM
AWARDS
2004

RUNNER UP BEST DSLR

Canon EOS 300D

PRICE £900 WEB www.canon.co.uk

Reviewed just last month, Canon's amazing new digital SLR has undercut its nearest rivals by hundreds of pounds. Yes, the body is plastic but it's actually pretty solid and well made – and while Canon has disabled some advanced functionality in the software (so as to leave a market for the 10D) this camera still has everything a non-professional digital photographer could possibly want. Pictures are sharp, clear and detailed, with quality that is essentially identical to its older, bigger brother the 10D. It's also seriously quick and is wonderfully easy to use. This is the DSLR of the year.

Pentax *ist D

PRICE £1,400 WEB www.pentax.co.uk

The *ist D is an exceptional DSLR with 6.1MP resolution and the option of a bundled 18-35mm lens for £1530. Images are nothing less than superb, the build is exceptional and it's crammed full of neat little touches.



Canon EOS 10D

PRICE £1400 WEB www.canon.co.uk

Similar to the 300D in results and image quality, why would you splash out the extra on the 10D? Quite simply, the build quality is superb and the camera software gives you control over all aspects of advanced image setup.



Best Mid-range Camera



DCM
AWARDS
2004

WINNER! BEST MID-RANGE

Minolta DiIMAGE A1

PRICE £850 WEB www.minolta.co.uk

The A1 is the successor to the fabulously successful DiIMAGE 7. Basic specifications include a 5MP resolution and a 7x zoom, giving seriously impressive picture quality. The only worry is the price, particularly when compared with Canon's new budget 300D SLR, but the A1 may be all you need in one lightweight package. One of the many improvements to the DiIMAGE 7 is the new anti-shake system, which promises to enable you to take shots in low light far more easily than before. It'll should also help with action photography. A worthy winner in the mid-range camera class.

DCM
AWARDS
2004

RUNNER UP BEST MID-RANGE

FujiFilm FinePix F700

PRICE £500 WEB www.fujifilm.co.uk

The F700 is the first camera to use FujiFilm's new SR sensor chip, which features extra sensors on the chip in order to capture detail in highlights that are out of the range of normal sensors. Does it work? In a word, yes. However, the 6MP resolution is more comparable to a good 5MP camera.



DCM
AWARDS
2004

RUNNER UP BEST MID-RANGE

Nikon Coolpix 5400

PRICE £600 CONTACT www.nikon.co.uk

Judged purely on handling, features and ease of use, the 5400 is arguably the best camera in this class. However, the image quality isn't quite up to the standard set by the winner in this category, with just a slight lack of sharpness in the final result.



Best Printer

DCM
AWARDS
2004

WINNER! BEST PRINTER

Epson 2100

PRICE £522 WEB www.epson.co.uk

It may be the size of an aircraft carrier and cost about the same but, if you're serious about A3 prints, the Epson 2100 is a wonderful printer. Here are the highlights: seven inks; 2,880 x 1,440dpi print resolution; USB 2.0 and Firewire connectivity; longlasting pigment inks; flexible media handling options; and superb prints both in colour and black and white. A worthy winner.

HP Photosmart 230

PRICE £135 WEB www.hp.com

The Photosmart 230 is a small format printer about the size of a loaf of bread. You can print directly from supported cameras and the print quality is surprisingly good.

DCM
AWARDS
2004

RUNNER UP BEST PRINTER

Canon i950

PRICE £265 WEB www.canon.co.uk

Canon's A4 printer connects to your computer via USB 2.0 and delivers fantastic photo results, using 4,800dpi technology combined with no fewer than six inks.



Best Scanner

DCM
AWARDS
2004

WINNER! BEST SCANNER

Canon Canoscan 8000F

PRICE £199 WEB www.canon.co.uk

The Canoscan 8000F gets our award because it's fast, flexible – and can scan photo negatives as well as prints. Canon's FARE dust and scratch removal software helps to get the best out of the scans. You can connect it to your computer using FireWire or USB 2.0. Optical resolution is 3,200 x 6,400 dpi, which – with 48-bit colour depth – is more than enough detail for the majority of us.

Epson 1660 Photo

PRICE £169 WEB www.epson.co.uk

Slightly cheaper but still with excellent specifications, Epson's 1660 Photo scans at 1,600 x 3,200 resolution with 48-colour depth. Film scanning is seriously quick.

DCM
AWARDS
2004

RUNNER UP BEST SCANNER

Minolta DiIMAGE Scan Elite

PRICE £600 WEB www.minolta.co.uk

It's by no means inexpensive but the Scan Elite is our top pick from the film scanner bunch. If you need a dedicated film scanner, this 5,400dpi scanner – with FireWire or USB 2.0 link – won't let you down.



Best Consumer Camera

DCM
AWARDS
2004

WINNER! BEST CONSUMER

FujiFilm FinePix S5000

PRICE £430 WEB www.fujifilm.co.uk

Our consumer camera of the year features FujiFilm's new HR SuperCCD and outputs a 6MP image from a 3MP chip. This doesn't give results as good as, say, the 300D's 6MP sensor, but photographs are nevertheless colourful with great contrast and saturation. In use, controls are simple and straightforward. Its biggest selling point is the massive 10x zoom, which will expand the subjects you can shoot exponentially. If a big zoom is your prime consideration for lusting after a DSLR, for instance, the FinePix S5000 may actually be all you need in one device – and at a far more attractive price.



DCM
AWARDS
2004

RUNNER UP BEST CONSUMER

Canon Powershot A70

PRICE £300 WEB www.canon.co.uk

A low price doesn't always mean inferior quality – the Powershot A70 has been a budget favourite of ours for months. Featuring a 3.2MP resolution, 3x zoom and great usability, this is a superb camera for anyone dipping a toe into digital photography.



DCM
AWARDS
2004

RUNNER UP BEST CONSUMER

Minolta Dimage F200

PRICE £350 WEB www.minolta.co.uk

Although the F200 looks like a neat, compact snapshot camera, it's really a powerful photographic tool. Resolution is 4MP, storage is Secure Digital – and its ease of use is simply tremendous. A great little camera.



Best Tripod

DCM
AWARDS
2004

WINNER! BEST TRIPOD

Manfrotto 055CL

PRICE £130 WEB www.calumphoto.com

Our winner is a classic tripod which should serve you well for many years. Weighing 2.3kg and expanding from 61cm to 175cm, it's a versatile unit that's built to last. This model comes with Manfrotto's superior 115 head, which uses die-cast adjustment knobs for three-way movement, rather than the more common tilt and pan mechanism, making it wonderfully solid in use.



Gitzo 1128 Mk2

PRICE £345 WEB www.hasselblad.co.uk
This is the top lightweight choice for outdoor use. If you take your tripod with you everywhere, this could be perfect at just 1.17kg. You'll also need a Gitzo head.

DCM
AWARDS
2004
RUNNERS UP BEST TRIPOD



Jessops TP323

PRICE £39.99 WEB www.jessops.com
If you're on a budget, you can't do better than this 1.55kg tripod from Jessops. Two spirit levels ensure you're lined up correctly and it expands from 63cm to 150cm.



Best Budget software

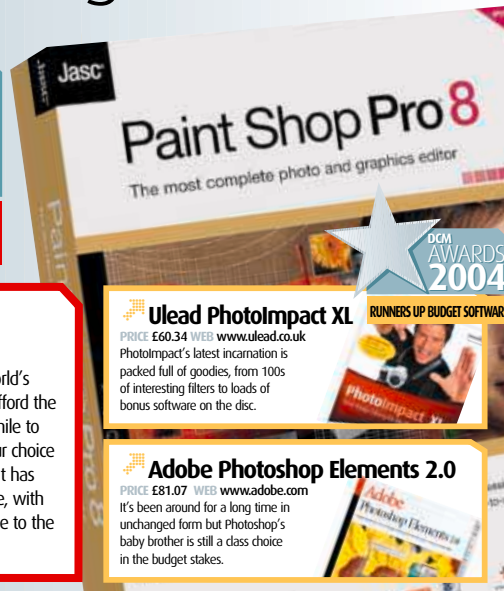
DCM
AWARDS
2004

WINNER! BEST SOFTWARE

Paint Shop Pro 8

PRICE £52.87 WEB www.jasc.com

Without doubt, Adobe Photoshop is the world's finest image editor. However, if you can't afford the investment in money or time (it takes a while to learn) that it demands, Paint Shop Pro is our choice of the budget alternatives. Over the years, it has evolved into a seriously impressive package, with masses of features that really do come close to the power and flexibility of Photoshop itself.



Ulead PhotoImpact XL

PRICE £60.34 WEB www.ulead.co.uk
PhotoImpact's latest incarnation is packed full of goodies, from 100s of interesting filters to loads of bonus software on the disc.

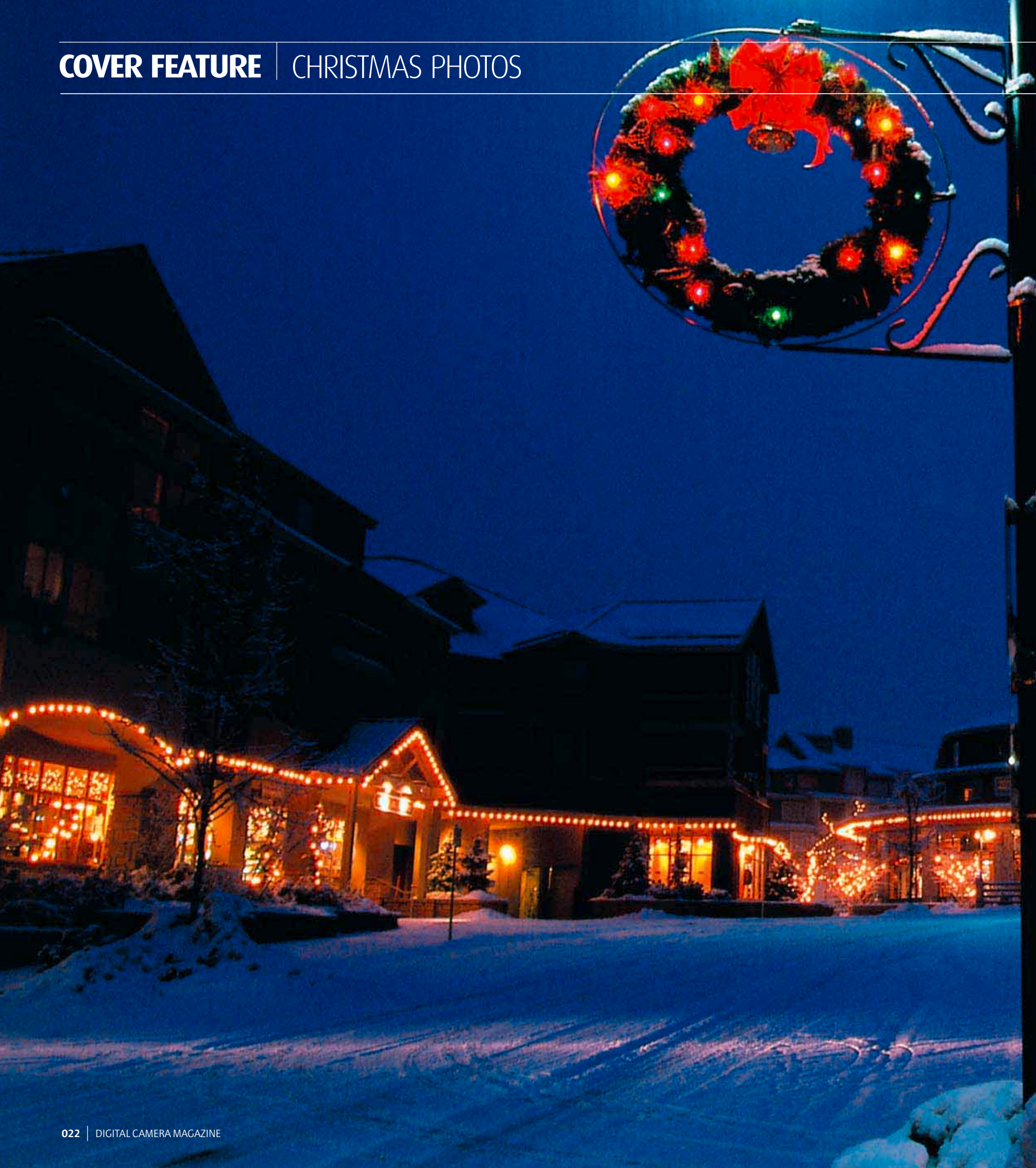
DCM
AWARDS
2004
RUNNERS UP BUDGET SOFTWARE



Adobe Photoshop Elements 2.0

PRICE £81.07 WEB www.adobe.com
It's been around for a long time in unchanged form but Photoshop's baby brother is still a class choice in the budget stakes.





Capture the spirit of Christmas

Christmas gives you the ideal opportunity to get some wonderful family images and try out some new ideas, says **Steve Bavister**

Chestnuts roasting by an open fire. Jack Frost nipping at your nose. That's how Christmases are supposed to be. These days, however, they're more likely to involve a pilgrimage to the nearest shopping centre and everyone gathering round the box to watch Eastenders.

However you celebrate the festive season, there's one thing that's certain: it's a great time of the year for photography. Most people get a few days off work, which provides the opportunity to take lots of pictures. First and foremost, it's a chance to capture those special moments when families come together. But it's all too easy at this time of year to slip into 'snapshot' mode, where you just set the camera to 'program' and don't think too much about what you're doing. Instead of settling for a simple record shot, aim higher, and have a go at producing something more creative.

Making pictures

Instead of just 'taking' pictures, think about 'making' pictures. That means setting things up how you want them rather than accepting what's already there. When it comes to photographing your family at Christmas,

that means spending a minute finding the best viewpoint, tidying up some clutter, or moving people to a different location where the light is better. It means thinking about the composition, and how to make it better, and the best way of posing individuals and groups, rather than letting them just stand or sit where they want.

When it comes to shooting seasonal still-lives, it's all about taking control of the lighting – using reflectors where necessary, or improvising a 'studio' with whatever resources come to hand.

'Making' rather than 'taking' also means getting out and about where there are interesting pictures to be taken, such as Christmas markets and street displays. Yes, of course it's cold, but if you have two or three layers of clothing to trap the air and a good scarf you'll have no problem keeping warm. Oh, and wear a pair of fingerless gloves – the type that market traders use – so you'll be able to stop your hands from getting cold, but still be able to operate your camera controls.

This Christmas, then, take your photography seriously, and produce the best seasonal images you can. But don't become a photo bore, endlessly shooting everything in sight – make the most of the opportunities, but don't forget to join in the fun yourself!



The spirit of Christmas Festive locations

Christmas offers a wealth of picture-taking opportunities – both in the run-up to the holiday period and on the day itself...

ABOVE Shoot street displays about an hour before dusk to produce a balanced exposure with a strong blue in the sky

ABOVE RIGHT If you take your children to see Father Christmas, capture a couple of candid shots of him on his own

BELOW RIGHT No matter how humble they may be, many people now decorate their abodes for Christmas

EXPERT TIP



**STEVE BAVISTER'S
PRO ADVICE**

SENSE OF DEPTH

Look for opportunities to create a sense of depth by placing elements in the foreground of the picture.

FLASHGUN

You can soften the light from a built-in flashgun by taping some tissue over the flash tube.

Despite its commercialisation, for many people, Christmas is still a religious experience. They go to a church or cathedral for carols or midnight mass, or for other services. This is a time of year when the interiors of such buildings are at their most magnificent, and it's worth thinking about taking a few choice pictures in them.

There's no point in using flash inside a church, and tripods are often forbidden (or at least frowned upon), so you'll have to hold the camera, which makes ramping up your ISO setting virtually essential. Generally, you'll want to use the wide-angle end of your range to show the scale of the place, but sometimes it's better to go for a telephoto setting that allows you to concentrate on specific details.

Visiting Father Christmas

Those people with younger children will probably have no choice but to pay a visit to Father Christmas – and you might as well get a picture or two for posterity. On the whole there's no problem, but some places have their own photographer and it's not allowed, so check first. 'Santa' will normally be in some kind of grotto, which means you won't have much control over the backdrop or the lighting. In fact, you'll almost certainly need to use flash. If you have a separate gun with a bounce head, it's a good idea to use it. If not, you'll have to make do with direct flash and soften the lighting a little in the computer later on.

Part of the preparation for Christmas involves putting

up decorations and dressing the tree. Why not shoot a series of the type they show at the end of the television show, Changing Rooms, which you can then animate on the computer?

Having got the tree and set it up, place the camera on a tripod so it takes in the whole of the tree, along with a bit of the room. Try to pick a time when the lighting in the room's not going to change a lot during the period you decorate it. Depending on the weather, any time



from the middle of the morning to the middle of the afternoon should be fine. The idea is to take a shot every time you change something. So you start with the bare tree, then take a picture after you put some tinsel on, then another after you add some baubles, and so on until it's complete.

The Christmas tree

If that concept doesn't appeal, you can just photograph the finished tree itself. If you have children, you'll add interest by getting some pictures of them putting the finishing touches to it, after the lights have been added. If they're young, kneeling down at their level, so you're shooting straight on rather than looking down, will give the most flattering perspective.

Use flash and you're likely to obliterate the lights from the tree, so place an ordinary table lamp behind or beside you, to illuminate the face and put catch lights in their eyes. The lights from the tree also look great when they're out of focus, so try some portraits with your little darlings – or your loved one – standing a few feet in front of the Christmas tree.



When photographing outside light, automatic settings may dull the colours. Experiment with your white-balance settings, until you get the effect you want



ZOOMING WITH AN SLR

If you have a digital SLR, it's possible to create an explosion effect by changing the focal length of your zoom lens during the exposure. It's a technique that can be used with virtually any subject, but it works particularly well when there is a strong focal point to the picture, such as the angel on top of a Christmas tree. Any zoom lens will do, but you should always start at the top end of the range, focusing carefully in manual. You'll need to anchor the camera to

a tripod, work in aperture-priority, set a shutter speed of four seconds, and zoom smoothly. Then check the results. It may take a few goes before you get it right. If necessary, increase the shutter speed so you don't have to rush. Once you've got the hang of that, try keeping the lens at its longest setting for half the exposure time, which will give you a picture in which the central part is pin-sharp, with a zoom burst coming out of it.



www.photolibary.com

www.photolibary.com



Christmas scenes

Other things you may want to photograph include hanging up the stocking, putting out food and drink for Father Christmas and, of course, unwrapping presents. With all these scenes you'll capture the mood best if you shoot by the glowing ambient light, such as candlelight, Christmas tree lights and so on. If there's not enough light, bring in a couple of table lamps or light some candles. You'll need to adjust the white balance if it's not automatic, and you may need to increase your speed rating or support the camera.

Aim to capture the surprised and, hopefully, delighted expressions of people as they open the presents. Choose the viewpoint that gives the most attractive backdrop, and clear up periodically so that the pictures aren't full of clutter and discarded wrapping paper.

Festive still-life studies

Once all the presents have been opened, you can get some pictures of everyone using them, playing with them or wearing them. You might also like to do some still-life studies before they start to get scratched and



www.photolibary.com

ABOVE When taking shots outside, set the white balance so that it doesn't filter away the warmth

BELOW LEFT Easy to set up and easy to shoot, why not try your hand at shooting Christmas food?

scuffed. Find a suitable backdrop, and put together a few items in an interesting composition.

And while you're at it, do some Christmas studies of pine cones, fir branches and so forth. For maximum control, put together a little 'studio' using some angle-poise lamps and reflectors to fill-in the shadows.

Food and drink

Why not have a go at a bit of food and drink photography? Christmas is a time when many people over-indulge, and there's often a wider selection of goodies around than normal.

Here's a simple idea to get you started: take a couple of mince pies and put one in the foreground and another behind. Dust them with caster sugar and place them so the light from a window catches them nicely. Then set a small aperture to limit the depth of field, and crop in close using your zoom lens. To get more interest you might try cutting the mince pie at the front in half, or take a bite out of it.

Another option is to fill a bowl with nuts or dried fruit and shoot them from above. Make sure that you get the camera as square as possible to the subject so that everything is sharp. If there's not much light indoors, nip outside. The diffused illumination from a 'Tupperware' sky will give you an image with lots of detail while the raking light you get from winter sun will bring out the texture of the products.

Glass has a reputation for being hard to photograph – but why not find out for yourself? Stand a glass of wine in front of a large window, with a piece of black card on each side to help darken the rim and define the edges. Tip the camera so the glass is at a diagonal in the frame and you've got another great shot.

Then again, how about... well, you get the idea. Once you start taking pictures of food and drink you won't be

short of subject matter. Some people, however, don't ever give it a go because they feel they don't know how to compose the shots. Thumbing through the pages of cookery books or looking at the product packaging pictures will provide some inspiration. If you have an open fire, you might like to photograph the proverbial chestnuts roasting – there's arguably no better way of capturing the spirit of Christmas.

The spirit of Christmas Christmas markets

If you want to capture some truly great seasonal images, why not pay a visit to a brilliantly illuminated Christmas market?

ABOVE The gothic glory of Christmas is best photographed at a traditional German market

BELOW RIGHT Use your zoom lens to fill the frame

EXPERT TIPS



**STEVE BAVISTER'S
PRO ADVICE**

FILL-IN FLASH

When photographing people in front of Christmas lights you'll need to use fill-in flash for a balanced exposure.

PANORAMAS

If you go to a Christmas market, consider producing a panoramic photograph by stitching several different images together.

One of the largest, oldest and most famous Christmas market is held at Christkindlesmarkt in Nuremberg, which attracts a huge number of visitors each year. Set amid the architectural splendour in the main square of this picturesque German town, the market is a feast for photographers, with illuminated historic buildings and 200 stalls selling goods of all kinds. The atmosphere is fantastic, there's often snow on the ground, and you can enjoy an evening drinking mulled wine and eating gingerbread. It's hard not to come home with something really memorable.

Many other German towns and cities have similar markets, and you can book a reasonably priced two-day trip to Munich, Stuttgart, Berlin and Hamburg among others. Alternatively, the markets at Lille and Bruges are easily accessible by car or Eurostar.

Closer to home

There are Christmas markets across the UK, including Bath, Lincoln, York, Rochester, Chester, Edinburgh and Warwick. Many draw their inspiration from the German markets. Some are on for just a couple of days; others run for longer periods.

As well as stalls where you can buy things, there are usually lots of things to see and photograph, including entertainers, puppet shows and lantern processions. It's in the evening, though, when these markets really come alive, as night begins to fall and lights are switched on. The most photogenic time to shoot is about

an hour before dusk. The sky in your pictures will be a rich, deep blue rather than a dark, cold black. It's also easier to get a balanced exposure when there's still some light in the heavens. Depending on how bright

the illuminations are, you may be able to get away with holding the camera. Using flash would obviously kill the mood completely, but you'll almost certainly need to increase your ISO rating. There's often a lot of bustle at Christmas markets, and it may not be practical to carry, set up and use a tripod. A monopod, if you have one, can be a good compromise. If not, brace yourself against a wall or post, in order to minimise the risk of camera-shake.

Christmas illuminations

Even if they don't have a market, most cities and towns put up Christmas illuminations. Blackpool always has a celebrity to switch them on, and the Regent Street lights in London are world famous. Even if your local displays aren't in that league, there's usually something worth photographing, such as a large Christmas tree or an old-fashioned carousel.

While we don't seem to get much snow these days, there's often rain, which can be extremely photogenic – with the lights glistening off wet streets or, even better, cobbled alleyways.

Don't be shy about photographing street entertainers at Christmas. Ask if you can take pictures (and give them a donation!) and most of them will pose to order, allowing you to get in nice and close so that you can fill the frame.

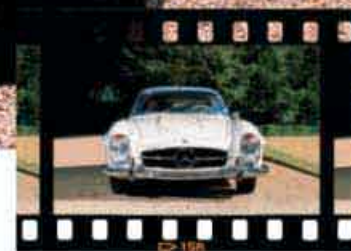
There may even be something that's worth photographing down your road or just around the corner. An increasing number of people take the opportunity of Christmas to cover the front of their house with lights and decorations.

Whenever you're shooting illuminations you'll need to watch your metering, as it's all too easy to suffer over-exposure with the lights burnt out. So review your pictures regularly and, if in doubt, under-expose slightly. You can always pull details out of the shadows, but it's impossible to recover lost detail in the highlights.



CanoScan

RESTORE OLD FAVOURITES.



Bring your old classics into the digital world. As well as high-speed, high-resolution scanning, the latest CanoScan scanners apply FARE technology to restore old film. Unique to Canon, FARE (Film Automatic Retouching and Enhancement) is an advanced process which uses infrared as well as conventional white light to automatically pick out and remove dust and scratches. Perfect for image archiving, photo printing and web use.

CanoScan F54000US Dedicated film scanner • Scans 35mm slides/negatives and APS film • 4000 dpi

CanoScan 9900F Professional flatbed scanner • Scans medium format & up to 24 x 35mm negatives/8 slides • 3200 x 6400 dpi

CanoScan 8000F High volume flatbed scanner • Scans up to 12 x 35mm negatives/4 slides • 2400 x 4800 dpi

CanoScan 5000F Versatile flatbed scanner • Scans 3 x 35mm negatives/2 slides • 2400 x 4800 dpi

CanoScan LiDE 80 Ultra-slim flatbed scanner • Scans 1 x 35mm negative • 2400 x 4800 dpi



For more information visit www.canon.co.uk

you can
Canon



OFFICIAL PARTNER

Family groups don't have to be staid and boring – get people to act up for the camera and consider mono to stop it looking like a snapshot



The spirit of Christmas Party time!

Parties are all about people letting their hair down, and that's the spirit you'll want to catch...

Uninhibited fun is the name of the game at Christmas parties, so it's vital that you're completely at home with your equipment, and can shoot quickly and accurately without having to stop and think. This is particularly true if you're partial to the odd drink yourself.

The secret in these situations is to make the camera as foolproof as possible, so set it up so everything functions automatically. If you have a choice of modes go for program, so you don't have to worry about selecting the shutter speed and aperture. And, unless there's lots of light, set the flash to fire every time.

Suitable subjects

There are two main ways of taking pictures at parties. The first is to wander around looking for likely subjects and take some pictures when you see them. While some are bound to be posed shots, people will start to fool around when they spot the camera. Candid shots, though, are generally better because the results are more spontaneous, since people are not aware that you're there. It's easy to do this if you keep your distance and use your zoom lens to fill the frame. There is also less danger of over-exposure from the flash, though if

you're too far back you could suffer under-exposure. Somewhere around 3m is a good compromise.

Shoot from the hip

The other alternative is to let the party shoot itself. While this can be a lot more fun, the results are more unpredictable. Basically, get in the middle of the action with the zoom set to its wide-angle setting and just fire away, sometimes not even looking through the viewfinder or at the LCD monitor. Instead of worrying about technical perfection, try shooting from the hip and with the camera overhead – perhaps even passing it around for other people to use. This approach works particularly well when you've got a group of people dancing, and will really get everybody into the spirit of things.

The great thing about digital cameras is you can all look at the results there and then. People love fooling around, especially when they're under the influence, and providing you're not too precious about your equipment, you'll end up with some shots to remember.

If that all sounds too haphazard, and you'd like to try your hand at something more creative, why not have a go at combining a long shutter speed with a burst of fill-

in flash. You'll need to 'suck-it-and-see' on the exposure front, but if you get it right you have some blur from any background lights but with the subjects in the foreground frozen by the flash.

Try shooting from the hip and with the camera overhead – perhaps even passing it around



ABOVE Christmas is an ideal time to capture close family relationships

LEFT Get in the middle of the fun at parties

BELOW Shoot from the hip to capture spontaneity

EXPERT TIP

STEVE BAVISTER'S PRO ADVICE

RED EYE

To avoid red eye, either use the camera's red-eye reduction facility or shoot when people aren't looking directly at the camera.

ISO RATINGS

If you're shooting at close quarters, keep your ISO rating no higher than 100.





DCMAG.CO.UK
**READER
TIPS**
dcmag.co.uk/
xmas

The spirit of Christmas Family events

Whatever your family does at Christmas – fall asleep in front of the Queen's Speech or go for a walk in the country – you'll want to photograph everyone together

ABOVE What you're looking for with children at Christmas is spontaneous fun – so don't worry too much about technicalities, just capture the spirit

BELOW RIGHT A good way to produce a feeling of connection, is by having people touching

EXPERT TIP



**STEVE BAVIER'S
PRO ADVICE**

LOCK THE FOCUS

If you want to capture a face behind a pudding flame, start by locking the camera's focus on the person.

CREATE A SLIDESHOW

Collect your best 20 to 30 pictures and organise a 'slide show' on your computer monitor or TV.

SAY CHEESE?

Don't ask people to say 'cheese' – get them to shout 'payday', 'whisky' or 'knickers' for a better facial expression.

Photographing a group of people is more difficult than shooting individual portraits. You've got to hold the attention of four, five, six or maybe a dozen or more people. And trying to ensure that they're all looking at the camera and the group itself is attractively organised takes some effort.

Indoor shots

Indoors, gathering people around a table can be effective, and it's a good time to shoot when everyone is sitting down for a meal. If you wait until the end of the meal, you'll have dirty plates and glasses everywhere, and if there are young children they may have spilt food down their clothes.

For small groups, sofas work well, with some people seated, others standing behind. If you have to use flash, try to keep everyone the same kind of distance from the camera, otherwise those who are close will be much brighter than those at the back.

If you're working with daylight indoors or room lighting that's balanced for tungsten, have a go at some more imaginative poses – such as one person in the foreground, sharp; and others behind, out of focus. You'll be forced into having a large aperture by low light levels that will give you minimum depth of field, so why not make a virtue out of a necessity? Place the foreground person over to the left, crop in tight, and you'll have an image with considerable impact.

Family portrait project

The Christmas period is a good time to carry out a family portrait project. Without the pressures of work, people will have more time and patience to pose for you, and

you'll also have the opportunity to take pictures of people that you might not see that often.

One option is to tailor each of the pictures to the subject, with an individual approach to the location, composition and lighting. Or you might prefer to set some kind of theme so they hang together as a series – perhaps all against a plain, white background in an advertising style, with each person holding an object that says something about them, or lit simply in the same way by the light from a patio door. A project of this kind will get you focused, and give you a sense of accomplishment when you've finished it.

If you're stuck for ideas, flick through some magazines for inspiration. Use your imagination and make the most of what comes to hand. Simple angle-poise lamps can provide an improvised 'studio', or if it's not too cold outside, the crisp light available this time of the year is great for portraiture.

Put yourself in the picture

A family group isn't complete without the photographer, so make sure you include yourself in some of the shots, too. Happily, most digital cameras feature a self-timer that will allow you to do just that. The first step is to mount your camera on a tripod (if you haven't got one add it to your Christmas list now!). Then get everyone else arranged, with space left for where you're going to sit or stand, and frame the shot.

Having chosen the exposure mode and, if necessary, activated the flash, select the self-timer and fire the shutter. You typically have 10 to 12 seconds to get in place and say 'cheese'. In the days of film you'd need to take several pictures in case someone blinked. With

BELOW If we get a fall of snow, make sure that you get outside and take a few shots



digital you can quickly check the shot's okay. If it is, you can resume the festivities. If the picture isn't quite right, you can repeat the process until it is.

Outdoor shots

Outdoors you've got a lot more freedom when photographing, but it's still a good idea to find some natural feature, such as a wall, bench or steps, for larger groups. Think carefully about the picture before setting it up. You need to arrange the group so everyone can be seen clearly, and so they form an attractive composition. Go for a relaxed, informal arrangement rather than a formal grouping, which can all too easily look like a firing squad or football team. ■



SONY

- ✓ European Imaging and Sound Association Award
- ✓ Technical Image Press Association Award
- ✗ Can win a photography contest all by itself



The Sony DSC-V1 compact digital still camera has been recognised for excellence by two prestigious associations. Could it be because it has a Carl Zeiss Vario Sonnar lens, 5 effective megapixel image resolution and full manual control? Or is it because it has a Hologram AF function that uses laser beams to help you focus properly in low-light conditions? Or maybe it's the NightFraming mode, which allows you to take pictures in complete darkness. But for all its advanced technical features, it can't accept an award from a compère. Nor can it compose a great picture. You have to do that.

32mb Memory Stick supplied. 'Sony,' 'Cyber-shot' and 'Memory Stick' are registered trademarks of the Sony Corporation, Japan. VCL-DEH07V wide angle lens shown is an optional accessory. Memory Stick PRO media can only be used with Memory Stick PRO compatible products.

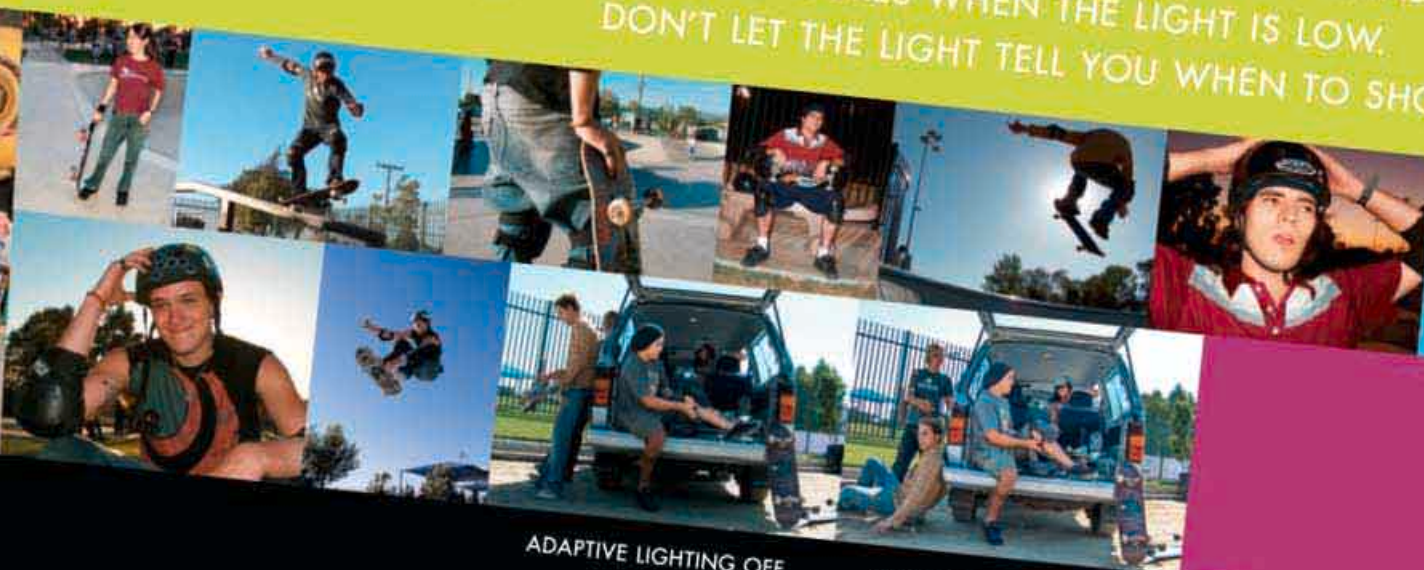
Cyber-shot V1 MEMORY STICK PRO

www.sony.be

You make it a Sony

YOU

SHOOT PICTURES WHEN THE LIGHT IS IN FRONT OF YOU.
SHOOT PICTURES WHEN THE LIGHT IS BEHIND YOU.
SHOOT PICTURES WHEN THE LIGHT IS LOW.
DON'T LET THE LIGHT TELL YOU WHEN TO SHOOT PICTURES.



ADAPTIVE LIGHTING OFF

ADAPTIVE LIGHTING ON

INTRODUCING THE HP PHOTOSMART 945 DIGITAL CAMERA WITH ADAPTIVE LIGHTING TECHNOLOGY

Light comes and light goes with little regard for your photography. And then there's the HP Photosmart 945 digital camera. It comes with HP's exclusive Adaptive Lighting technology. Which means you can expect sharp, crisp pictures even in high-contrast conditions, bringing out details typically lost in the shadows. Get even closer to the action with 56x total zoom and 5.3 total megapixel resolution. And its intuitive design gives you more creative control for better results with every photo. Don't be afraid of the dark. Be Photosmart.

Only £399. For more information go to www.hp.com/uk/create or visit: John Lewis Department Stores, Jessops or dabs.com

you + hp



5-MEGAPIXEL CAMERA
THE OLYMPUS E-1
IS HERE AT LAST!
SEE PAGE 34



Section highlights...

OLYMPUS E-1

OLYMPUS'S LONG-AWAITED 4/3RDS CAMERA
The first digital SLR system that's not adapted from 35mm technology makes its debut

PAGE
34

PENTAX OPTIO 33WR

PENTAX'S PRACTICAL FAMILY CAMERA

There's more to the Optio 33WR than its water resistance – it's tough, practical and easy to use

PAGE
38

SONY MAVICA CD500

THE CAMERA WITH A BUILT-IN CD WRITER

This versatile camera provides a handy alternative to memory cards, with great performance to match

PAGE
42

SOFTWARE

PHOTOSHOP CS

The latest incarnation of Photoshop is about to hit the streets, and it's looking good...

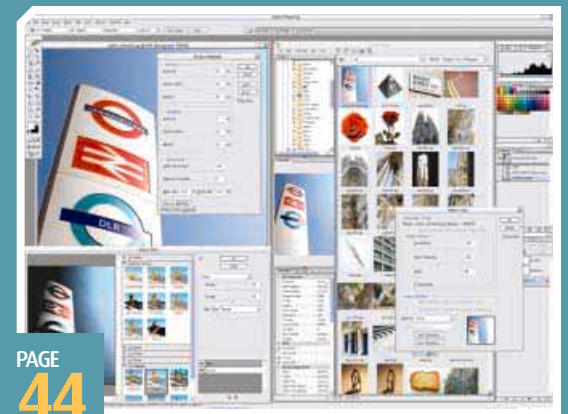
PAGE
44



PAGE
38



PAGE
42



PAGE
44

Kit reviews

The latest digital photo gear, reviewed and rated



Reviews you can trust!

Our aim is to inform you fully about a product's best and worst features. To this end, we guarantee each review is **Independent**: We have a cast-iron policy of editorial independence. Suppliers never see a review until the magazine hits the newsagent **Authoritative**: Every review includes the manufacturer's range, other options, test shots, 3D tours, plus links to buy online **Clear**: We use diagrams and boxes to ensure each review delivers a definitive verdict



Contact our reviews team

If you have a comment about our reviews, or a product you would like us to test, please email us at editor.dcm@futurenet.co.uk. Visit our website at www.dcmag.co.uk for reader verdicts

CAMERA TOURS ON OUR CD

View every main camera reviewed each month in 3D, on our CD! Rotate it, swoop around it – it's the next best thing to holding the camera in your hands

CAMERA RANGE GUIDE

We show you where each camera sits in the maker's range, and whether it's worth your while spending extra money for more features

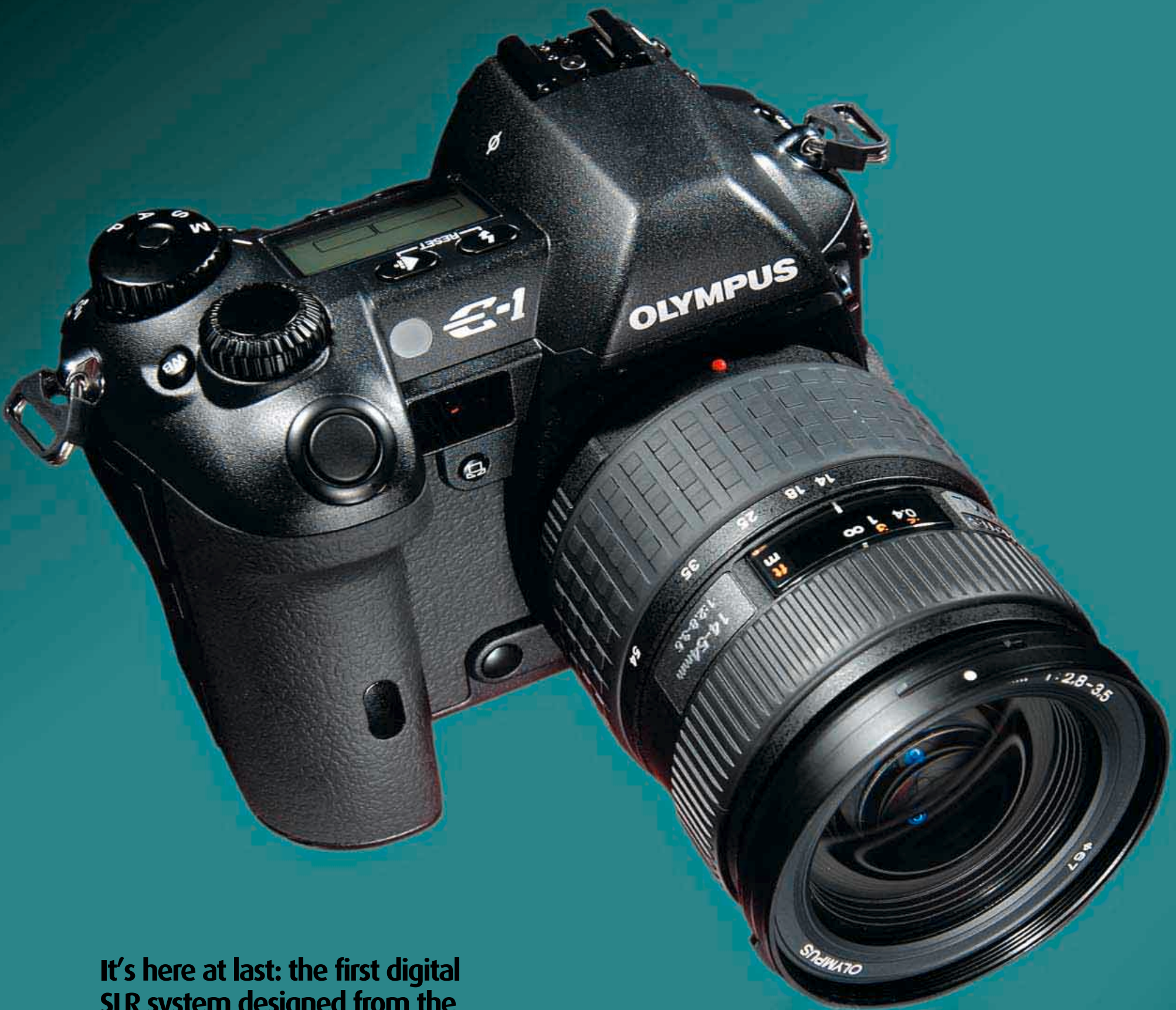
COMPARISON STRIPS

See how each camera performs against the others in our reviews – pull back the page and compare the right-hand strips

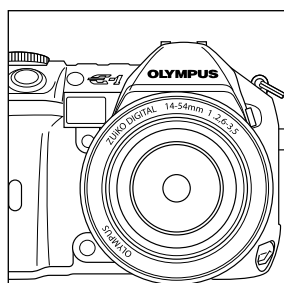


DIGITAL CAMERA SHOPPER

If you're looking to buy cameras or accessories, check out our brand new sister title, Digital Camera Shopper – it's packed full of expert reviews on everything to do with digital cameras!



It's here at last: the first digital SLR system designed from the ground up and not adapted from 35mm technology...



OLYMPUS E-1

Price	£1,820 including 14-54mm zoom (28-90mm equivalent)
Resolution	5 megapixels
Lens	New E-system lens range
Memory	CompactFlash (not supplied)
Battery Life	Not quoted
Contact	0800 072 0070 www.olympus.co.uk



SAMPLE IMAGES ALL THESE IMAGES CAN BE FOUND ON OUR CD/DVD

Olympus E-1

The long-awaited E-1 is a whole new camera system, which is designed from the ground up for professional digital imaging

It's here at last: the first digital SLR system designed from the ground up and not adapted from 35mm technology. The E-1 takes a whole new range of Zuiko digital-only lenses, fitted to a brand new 'four-thirds' lens mount.

The four-thirds system includes specifications for the lens fitting, lens throat diameter and lens flange-CCD distance. It's a purpose-designed digital system rather than a digital-analogue compromise to allow backwards compatibility with film systems. The specification includes a CCD that's slightly smaller than the sensors in rival SLRs, producing a focal factor of 2x.

Olympus claims the new lenses counter existing digital SLR issues: lack of wide-angle lenses, poor resolution and corner shading. All three have proved obstacles to digital SLR buyers in the past, but it's arguable whether they do now. Pentax, Canon and Nikon offer lenses optimised for their digital models, covering true wide-angle ranges. The corner-shading issue is an interesting one. Photographic film isn't too

The camera is built like a tank with a die-cast aluminium body, and the Zuiko lenses offer a similar impression of durability

fussy about the angle that light strikes it; CCDs are. If the light rays don't strike the CCD at 90 degrees (or close to it), the recorded light intensity is lower. The 'tele-centric' design of the Zuiko lenses is designed to eliminate this. On the other hand, why does the E-1 have a corner-shading correction option in the menus?

Within the E-1 there is another clever feature: the sensors in digital SLRs can easily pick up bits of dust as you change lenses, and since they're solid-state devices, any dust they pick up with stay there, leaving spots on every subsequent images. Cleaning the ultra-fragile surface of CCDs is a technical, not to say scary, job. Olympus, though, has built in a Supersonic Wave Filter,

which is triggered each time you start the camera up (it can also be invoked manually), and it literally shakes dust onto a special adhesive tape below.

The E-1 system is a high-quality, expandable, professional system. The focal plane shutter is guaranteed for 150,000 releases; the camera itself is built like a tank with a die-cast aluminium body; and the Zuiko lenses offer a similar impression of durability. And so they should at the prices being charged. Neither the E-1 nor its lenses are cheap in the current SLR climate, so they've got a good bit to live up to.

Features

Price isn't the only worry. The E-1 uses a 5-megapixel CCD instead of the 6-megapixel chips in rival digital SLRs. It's not a big difference – just 17 per cent – but it's a bit of a psychological hurdle. After all, there are dozens of compacts on the market with the same resolution. However, the E-1's sensor is physically larger than that of most compacts, which plays a part in improving image quality. It has the same resolution, technically, as many compacts, but the detail rendition, tonal smoothness and noise control is on another plane.

Here's another thing to worry about, however: the E-1 has no built-in flash. You can buy an external flash, of course, and the Olympus FL-50 offers far more power and flexibility than any internal tube but, at £354, it's hardly an impulse buy, is it? Professionals might be inclined to dismiss built-in flashguns as amateur gimmicks, but it's not that simple. Weak they might be, but built-in guns can offer useful fill-in light for outdoor portraits and other awkward conditions.

The E-1 system is certainly flexible. In addition to the FL-50, you'll soon be able to buy ring flash and twin flash

ON OUR COVERDISC



ZOOM & COMPARE

Check out our brand new image comparison system on the disc!

ON OUR WEBSITE

OPINIONS & SHOPPING

Post your views, see what other readers think then buy this camera!

dcmag.co.uk/olympus

OLYMPUS E-1 KEY POINTS



LENS MOUNT

The E-1 is the first camera to use the new 'four thirds' open standard, which means other manufacturers may come on board in the future with their own lenses and cameras

E-1 LENSES

The lenses for the E-1 were not originally designed for film cameras but are, in fact, specifically made for this camera, and optically optimised for digital sensors

SYSTEM ACCESSORIES

The E-1 is a true professional camera at the heart of an expanding system of lenses and accessories, including external flashguns, battery grips, focusing screens and eyecups

DIGITAL RANGE OLYMPUS

p116		E-1 Price: £1,820 Megapixels: 5
p116		C-5050Z Price: £500 Megapixels: 5
p114		C-750UZ Price: £500 Megapixels: 4
p116		C-50 Price: £430 Megapixels: 5
p113		MJU 400 Price: £350 Megapixels: 4

REVIEWED! Go to p111
See Buyers' guide for full rating

IN FOCUS PERFORMANCE

[01] NOISE

This was shot at ISO 800, and while there's some granularity creeping into the shadow areas, it's more than acceptable for an action shot, and a lot better than camera shake

[02] EXPOSURE ACCURACY

Two of our outdoor test shots revealed weaknesses in the ESP metering system, but here the E-1 has made no mistake, with a perfect balance in contrasty conditions

[03] COLOUR RENDITION

The auto white balance does an excellent job here, maintaining a clear, blue in the sky and good red/yellow reproduction. No need for white balance bracketing or manual override here



[04] DETAIL RENDITION

Marginally inferior to a 6-megapixel model, but really it's almost impossible to tell the difference, and the quality is far better than any digital compact

[05] AF PERFORMANCE

The E-1's three focusing points cover a comparatively narrow central area, but the AF itself is very fast and accurate

[06] SHOOTING SPEED

The 128MB buffer and fast processing mean that you can shoot up to 12 frames at 3fps. But the fast AF and shutter response mean that precise timing is possible too. We just about kept this rider out of the frame – not easy at racing speeds



LENS
The 14-54mm lens offered with the E-1 is compatible with a 28-108mm on a film camera



HANDGRIP
The E-1 is solid, and that rubberised grip makes one-handed carrying – and shooting – easy

units for macros and close-up work – just make sure that you have your credit card ready. It's also compatible with studio flash systems, sporting a flash sync socket for cable connections.

The E-1 can shoot at 3fps, which is good though not exceptional, but it can maintain that speed for up to 12 frames, whether you're shooting JPEGs, TIFFs or RAW files. Now that is good. You can also tell whether the camera's 128MB buffer is close to full because its remaining capacity is constantly visible in the viewfinder.

If you're still smarting over the E-1's price tag, you'll be reassured by the level of photographic control available and its resolutely professional approach. You can bracket exposures over three or five frames, in 1/3, 1/2 or full step increments. You can also adjust the white balance manually in 300K increments. ('K' stands for degrees Kelvin, the technical way of reference to the colour temperature of light – its blueness or yellowness.) If you're not sure about the white balance, you can apply white-balance bracketing, saving a series of shots at different white-balance settings. Or shoot in RAW mode and sort it out later using the Olympus Viewer software.

The E-1 has support for the standard sRGB colour space and Adobe RGB. The colour space is the total range of colours the camera records, and how it records them. sRGB is best for most purposes, but Adobe RGB is designed for professional publishing environments, where images have to be optimised for four-colour CMYK professional printing presses.

Like other digital cameras, the E-1 uses 'firmware' which can be upgraded with improvements and enhancements. Some cameras have to be sent off to repair centres for this to be carried out, but the E-1's updates will be made available via the internet.

Build and handling

What's the camera like to use? First impressions are of a particularly heavy and solidly made camera. The image sensor's slightly smaller size doesn't translate into a smaller camera. The Olympus is slightly larger than the old E10/E20 and bigger, indeed, than the recently reviewed Canon EOS 300D and Pentax *ist D.

It's not small, then, but the E-1 is certainly grippable. The shape of the handgrip and its rubberised surface make this camera perfect for one-handed carrying, even for extended periods; and at eye level, with your left hand cradling the lens barrel, it makes a very stable shooting platform.

The start-up time's little more than a second, but don't go waiting for the LCD on the back to light up because it won't. You can't compose shots on the LCD of this or any other true digital SLR since the image is reflected up into the pentaprism for viewing and doesn't fall onto the CCD.

It's a bit of a surprise to discover just three AF points, and that they confer a comparatively limited area. Compare this with the seven-point wide-area AF system in the much cheaper EOS 300D, for example, especially since the Canon highlights the focus point used in the



MODE DIAL
There are no amateur-orientated 'scene' modes to clutter up the E-1's mode dial

VIEWFINDER
The E-1's viewfinder is sharp and crisp, and displays nearly all the shooting information

CONTROL
The control layout will be familiar to anyone who's used an E10/E20. It's logical and efficient

It's entered the market at a price point that's a little higher than its competition, with a resolution that's slightly lower

viewfinder at the instant of shooting, too. What the E-1 does let you do is fine-tune the focus manually, even while you're still in AF mode. This isn't just for improving focusing accuracy but for maximising the depth of field by focusing between two objects you want to render sharply instead of choosing just one.

The E-1's AF is fast, too. It's far faster than any compact and as good as its digital SLR rivals. Combine this with the fast sequence shooting and the range of wide-aperture telephotos in the digital Zuiko lens range, and you've got a comparatively affordable press/sports camera.

Olympus doesn't quote battery life expectancy for its cameras, but the E-1 comes with a big, rechargeable lithium-ion pack of similar proportions to that in the EOS 300D, which bodes well.

The information displayed in the viewfinder is clear and comprehensive. The only thing missing is the ISO setting. Does that matter? It does if you've just shot an entire motor sport meeting plus a set of staged still-lives at ISO 800 by mistake.

Image quality
Which brings us neatly onto image quality. The E-1 uses a Full Frame Transfer CCD as opposed to the Interline Transfer chips used in some other cameras. The upshot is bigger photodiodes, a higher signal-noise ratio and improved dynamic range.

Certainly, the E-1's images are very good, even at ISO 800. Noise is visible but well controlled at higher ISO settings, and the colour saturation and contrast border on the exceptional. Most of the time you'll be

working at ISO 100 for maximum quality, of course, and it's shots taken at this setting which are going to be compared directly with those from 6-megapixel rivals (our test shots were taken at this setting).

A sound investment?
There's no doubting the E-1's build quality, handling, features and design. The technical difference between this camera's 5-megapixel images and those of its 6-megapixel rivals is too small to really quibble about, either. The E-1 is the centre of a flexible, versatile new lens and accessory system that, judging by the body/lens combination reviewed here, will be built to the highest professional standards.

And yet, the way things stand at the moment, the E-1 system has a big hill to climb. It's entered the market at a price point that's a little higher than its competition, with a resolution that's slightly lower and with no existing lens range/analogue camera compatibility. Other digital SLRs benefit from a crossover market; this one requires a full-scale investment in a whole, new system. ■

OLYMPUS E-1 PERFORMANCE

SKIN TONES

PRO The colour rendition is good in our shot, despite the coolness of late afternoon shade

CON Watch out for underexposure, particularly with light backgrounds and white clothing

OUTDOOR SHOTS

PRO Colour rendition, contrast and dynamic range are good, despite this dull test shot

CON Why so gloomy? The same thing happened to our outdoor test shot on the CD

INDOOR SHOTS

PRO The 14-54mm zoom's wide angle is an advantage in cramped interiors

CON The ESP metering took a bit too much notice of the bright lamp and window

IMAGE QUALITY

PRO The larger sensor area means images are more detailed than a 5MP compact

CON The same money will get you a 6MP rival with cash to spare

OLYMPUS E-1 FULL SPECIFICATIONS			
Sensor	5-megapixel, 17.4mm x 13.1mm 5.5MP CCD	Video output	PAL or NTSC
Lens	Tested with Olympus Zuiko 14-54mm, also available body-only	Movie recording	No
Focus	Auto, manual, minimum focus depends on lens in use	Other features	Exposure and white balance bracketing
Exposure modes	Program AE, shutter-priority, aperture-priority, manual	Image storage	CompactFlash
Metering	Multi-pattern ESP, centre-weighted, spot	Batteries	Lithium-ion rechargeable BLM-1
Monitor	1.8-inch, 134,000 pixels	Battery life	Not quoted
AE compensation	+/-5EV in 0.3EV or 0.5EV steps	AC adaptor	Yes
Flash	No	Weight	660g body only, without batteries or memory card
		Dimensions	141mm(w) x 104mm(h) x 81mm(d)
		Transfer	USB 2.0, FireWire
		Software	Olympus Viewer 1.0

WORTH
A LOOK

CANON EOS 300D
£900 (body only) 3MP

CANON EOS 10D
£1,250 (body only) 3MP

FUJIFILM
FINEPIX S2 PRO
£1,300 (body only) 3MP

PENTAX *IST D
£1,300 (body only) 6.1MP

Verdict

The vanguard of a new system, but has Olympus gone out on a limb?

The E-1 looks pretty expensive, especially in the light of that 5-megapixel CCD. What's more, its lenses and accessories carry hefty price tags, too

FEATURES	97
IMAGES	92
BUILD	96
VALUE	70

88% FINAL SCORE



PENTAX OPTIO 33WR

Price	£300
Resolution	3.2 megapixels
Lens	f2.8-3.9 2.8x zoom
Memory	16MB SD card
Battery Life	125/540 shots (using alkalines/supplied disposable Lithium CR-V3 battery)
Contact	01753 792 731 www.pentax.co.uk



SAMPLE IMAGES ALL THESE IMAGES CAN BE FOUND ON OUR CD/DVD

Pentax Optio 33WR

It's water-resistant, yes, but so what? Ah, but the Optio 33WR has a lot more going for it than that...

ON OUR COVERDISC



ZOOM & COMPARE

Check out our brand new image comparison system on the disc!

ON OUR WEBSITE

OPINIONS & SHOPPING

Post your views, see what other readers think then buy this camera!

dcmag.co.uk/pentax

DIGITAL RANGE PENTAX

	OPTIO 550 Price: £400 Megapixels: 5
	OPTIO 450 Price: £350 Megapixels: 4
	OPTIO 33WR Price: £300 Megapixels: 3.2
	OPTIO S Price: £300 Megapixels: 3.2
	OPTIO 33L Price: £200 Megapixels: 3.2

REVIEWED! Go to p111
See Buyers' guide for full rating

Pentax is developing quite an interesting camera range. At the top end, its enthusiast-orientated Optio 550 (the 555 is imminent) and Optio 450 face tough competition from Canon, Nikon and Olympus models, but they are competitively priced right now.

Meanwhile, the very different and incredibly slim Optio S remains one of the most attractive miniature cameras around. And Pentax's bargain-basement 3.2-megapixel Optio 33L is better value, now turning up for as little as £200.

So what about the Optio 33WR? The 'WR' stands for 'Water Resistant'. Not 'Water Proof', you'll note, so you can't go swimming with it, though it's going to cope better with life on the beach than other cameras. Pentax advises that you do brush sand and grit out of the way if you're going to open the battery/card compartment, and wipe off any drips of moisture that might creep in but, otherwise, the 33WR is both weatherproof and washable.

What else can it do?

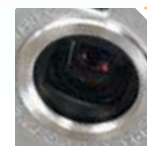
Apart from its water-resistant design, the Optio 33WR looks like a pretty straightforward, basic 3.2-megapixel camera. Though closer inspection reveals that it's not as basic as all that, and that there are some handy photographic controls and smart design touches buried inside that chunky exterior.

The first surprise is this camera's start-up time. The LCD on the back lights up barely a second after you've pressed the power button. Don't underestimate how useful this is – if you're carrying the camera round on a day out, the ability to grab shots as they present themselves is crucial. The time it takes the three or four rival cameras to fire up can often mean that you miss the shot (or that you can't be bothered to attempt it).

The next surprise is just how many different scene modes this camera's got, and how easy they are to access. Just press down on the navipad, and they appear as a circular 'wheel' on the LCD. You just press left and right on the navipad to cycle through them. The scene



FINISH AND BUILD
The Pentax's oblong shape is quite pleasing to handle, quite apart from its water-resistant qualities



LENS
The lens stays securely covered up behind that glass panel

modes include landscapes, night scenes, night portraits, portraits, sand and snow, macro, sunset, fireworks, 'snap', movie and panoramic options.

In the panoramic mode, you can take a sequence of overlapping shots and stitch them together later on your computer. The camera displays the edge of the last shot that's taken as a semi-transparent overlay at the edge of the screen, which helps you to position it for the next shot.

Other photographic controls are just as accessible. If you need to apply exposure compensation when you take a shot, just press left or right on the navipad. Sounds too easy to do accidentally? The first press simply activates the EV compensation, displaying its icon

on the screen; you need another press to actually change the setting.

You have to dip into the menus to access more advanced options, but they're clearly laid out and the navipad's big and positive. Here you can change the quality setting, white balance, metering pattern (multi-segment, centre-weighted and spot), ISO, sharpness, saturation and contrast.

The white-balance option could do with being a little more accessible, but it's a pleasant surprise to discover that the Pentax offers three metering patterns.

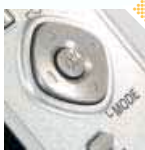
You'll be even more surprised to discover that the quoted 1cm minimum macro distance is not a misprint. The more you use it, the more you realise that



POWER SWITCH
The Pentax seems to take no more than a second to start up – amazing! The non-extending lens design helps, presumably



LCD
The LCD's nice and sharp, with a good refresh rate. You can get it to display a live histogram while you're composing shots, too



NAVIPAD
Pressing downwards in shooting mode displays the camera's scene modes in quick-to-navigate on-screen mode 'wheel'

It's water-resistant, sure, but it's also rugged, easy and fast to handle, practical, pocketable and photographically quite sophisticated

this is a versatile photographic tool, despite its plain, functional appearance.

Two more buttons on the back let you change the flash mode (no slow flash option, but you can achieve the same thing with the night portrait scene mode) and the focusing mode. Here, the choice is between the standard autofocus option, infinity focusing (fine for grabbed shots of anything more than a couple of metres away) and manual focusing.

Ease of use

It really is hard to find fault with this camera. The styling looks awkward and contrived, but it actually handles very well. Its slab-sided construction provides a good, uncluttered surface area for the controls to spread out, and there are no protuberances, knobs or switches to snag on your

pockets. The rubberised corners stop it sliding about and you can stand the camera up for self-timer shots or lie it flat in your briefcase for taking to work.

There is one minor annoyance to do with the lens, and that's the fact that it takes a fraction longer to zoom in and out than most lenses. It seems to need an extra moment or so to slide the internal elements into place and refocus, presumably because of the compact non-extending design.

The autofocus speed, though, doesn't seem to be compromised at all. Normal wide-angle shots are focused very quickly, and you can either wait for focus confirmation with the shutter release half-pressed, or just stab the button and wait half a second or so for the shot to be taken.

Telephoto shots focus a little slower, but the audible focus confirmation is unmistakable, so

there's no uncertainty about whether the camera's ready to take the shot or not.

Results and conclusions

Lastly, there's the picture quality. There are no problems here at all. Images are as sharp, colourful and punchy as you'll get from the numerous other 3-megapixel models on the market right now. The water-resistant design might hit you in the pocket a little, but it doesn't hurt the photographic quality.

The price is the only thing, really. At £300 the Optio 33WR is roughly £50 more expensive than many comparable 3-megapixel models, and £100 more than its cheapie stable mate, the 33L, is selling for in some places. The weatherproof Mju 300 must be one of the Pentax's strongest rivals right now – it has super-slick metal construction, pocket-sized dimensions and is discounted to below £300.

Nevertheless, the Optio 33WR proves an unexpectedly likable camera. It would be a really good 'family' camera. And you know, thinking about it, we'd be hard-pressed to name another camera that's as easy for an under-ten to use and better suited to surviving it. ■

PENTAX OPTIO 33WR PERFORMANCE

SKIN TONES



PRO It's late afternoon and the light is cool but the Pentax has compensated well

CON The Optio 33WR's colour response isn't always predictable

OUTDOOR SHOTS



PRO Outdoor shots have sharp detail, accurate exposures and saturated colours

CON The low sunlight has been warmed up still further by the Pentax

INDOOR SHOTS



PRO Shutter speeds go up to 4 sec, so with camera support, indoor shots are no problem

CON With no slow flash mode you have to shoot indoor subjects under artificial light

IMAGE QUALITY



PRO The lens's compact optical design doesn't harm the results, which are really quite sharp

CON Shots taken at ISO 100 are good, but higher ISOs introduce noise and softness



PENTAX OPTIO 33WR FULL SPECIFICATIONS

Sensor	3.2-megapixel, 1/2.7-inch 3.3MP CCD	Image storage	SD card
Lens	Pentax f2.8-3.9 2.8x zoom	Batteries	2x AA or 1x CR-V3
Focus	Auto, manual, 1cm in macro mode	Battery life	125/540 shots (using alkalines/supplied disposable Lithium CR-V3 battery)
Exposure modes	Program AE, scene modes	AC adaptor	No
Metering	Multi-segment, centre-weighted, spot	Weight	160g (without battery or card)
Monitor	1.6-inch, 84,000 pixels	Dimensions	81.5mm(w) x 76mm(h) x 30.5mm(d)
AE compensation	+/-2EV in 0.3EV steps	Transfer	USB
Flash	Auto, on, off, red-eye	Software	ACDSee
Video output	PAL or NTSC	OS	Windows 98/Me, 2000 or XP. Mac OS 8.6 or later
Movie recording	320 x 240 at 15fps with sound		
Other features	Water-resistant design		

WORTH A LOOK

FUJIFILM FINEPIX F410
£300, 3.1MP

p116

CANON DIGITAL IXUS II
£300, 3.2MP

NIKON COOLPIX 3100
£280, 3.2MP

p112

OLYMPUS MJU 300
£270, 3.2MP

p116

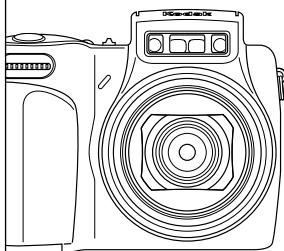
Verdict

It's chunky, tough, easy & versatile. If only we scored for practicality...

The Optio 33WR hits the nail on the head in so many unexpected ways. The perfect family camera? Not a recognised market, but surely a crucial one...

FEATURES	88
IMAGES	85
BUILD	94
VALUE	85

88% FINAL SCORE



KODAK DX6490

Price	£400
Resolution	4 megapixels
Lens	f2.8-3.7 10x zoom
Memory	116MB internal, SD card slot
Battery Life	126-210 shots (depending on usage)
Contact	0870 243 0270 www.kodak.co.uk



SAMPLE IMAGES ALL THESE IMAGES CAN BE FOUND ON OUR CD/DVD

Kodak DX6490

What price ordinary 3x optical zooms now? Kodak's the latest maker to introduce a massive 10x 'ultra-zoom' camera...

ON OUR COVERDISC



ZOOM & COMPARE

Check out our brand new image comparison system on the disc!

ON OUR WEBSITE

OPINIONS & SHOPPING

Post your views, see what other readers think then buy this camera!

dcmag.co.uk/kodak

DIGITAL RANGE KODAK



DX6490
Price: **£400**
Megapixels: **4**



LS633
Price: **£300**
Megapixels: **3.1**



DX6440
Price: **£300**
Megapixels: **4**



DX4530
Price: **£300**
Megapixels: **5**



DX6340
Price: **£250**
Megapixels: **3.1**

REVIEWED! Go to **p111**
See Buyers' guide for full rating

Kodak's the latest maker to launch a 10x zoom camera, with the DX6490 model reviewed here. It's joining the Minolta DiMAGE Z1, HP PhotoSmart 945, Fujifilm FinePix S5000 and Olympus C-750UZ.

The Kodak has little to offer, technically, that we haven't seen before, but it does feature an unusually large 2.2-inch LCD 'Indoor/Outdoor' LCD. As the name suggests, this is designed to perform both in bright outdoor lighting and gloomier indoor conditions. It does, but only up to a point.

Indoors, it undergoes an odd switch between a full-colour display and a mono version that cuts in when light levels fall too low – presumably in an attempt to maintain display image quality. Very odd, especially when other cameras seem to manage perfectly well in full colour all the time.

While we're on the subject of low light, the Kodak has another strange characteristic. In program AE or aperture-priority mode, it won't set a shutter speed slower than 1/8 sec. Though, oddly, you can set slower speeds manually in shutter-priority or manual mode. The upshot of this is that you can end up with underexposed low-light shots because the camera doesn't have the shutter speeds to cope with them.

Easy EasyShare?

Back to the features. Like other Kodak models, the DX6490 uses the company's EasyShare software transferring and organising your photos. You can also tag photos while they're still on the camera for emailing, printing and storing as favourites, and the appropriate actions are carried out by the EasyShare software when they're transferred to your computer.

It's intended to be as user-friendly as possible, and it certainly does explain things in simple terms for beginners. However, it doesn't teach beginners anything about image management and manipulation in broad terms and, if you already know the basics, you're more likely to find it irritating and restrictive. You can,



HANDGRIP
The sculpted profile would suit only the smallest of hands, and your fingernails drag on the lens barrel

LENS
The 10x optical zoom on this camera is a first for Kodak, but it's up against strong competition

however, sidestep the EasyShare system altogether and transfer images with Windows Explorer and edit them using any third-party image editor.

You'll find this a lot easier if you invest in an SD memory card because the camera doesn't come with one as standard. Instead, pictures are saved to the camera's 16MB internal memory. It's not really enough for the 4-megapixel resolution, and far less convenient than removable memory.

Kodak's EasyShare system starts to look anything but easy once you learn that the DX6490 is compatible only with the camera dock 6000 and not earlier models, and if you buy the 6000 separately it comes with NiMH rechargeables you shouldn't use with this camera, and

you'll need to use the special camera dock insert provided with the camera... oh, please.

Unexpectedly powerful

What is interesting about this camera is the increased photographic control available compared with other Kodak models. As well as a standard program AE exposure mode and a small selection of scene modes (sports, portrait and night scene), you can choose from the four PASM (program AE, aperture-priority, shutter-priority and manual) modes normally associated with higher-end models. You also have a choice of three metering modes (multi-pattern, centre-weighted and spot), making this the most advanced Kodak yet.



KODAK DX6490 PERFORMANCE

SKIN TONES



PRO The Kodak turned in restrained but accurate skin tones in our test shot

CON Up-close, the Kodak's noise-reduction is a little too effective, smothering fine detail

OUTDOOR SHOTS



PRO Bright, saturated, technically good shots in a range of outdoor conditions

CON Fine detail is crisp, but there's a good deal of in-camera sharpening going on

INDOOR SHOTS



PRO No slow sync mode, but the night scene mode achieves a similar effect

CON The results in our test looked disappointingly flat and 'grey'

IMAGE QUALITY



PRO While the handling isn't all it might be, there's little wrong with the image quality

CON How much do you need that 10x zoom? It has an impact on price and value

To make any headway against its big-name rivals, the Kodak DX6490 has to be cheaper or better. Sadly, it's neither

However, it's no use having all these options if they're not easy to get to, and this is where the Kodak falls down. It uses a single rotating dial on the back to power the camera up and switch between its main operating modes. A small, raised lug gives your right thumb enough purchase to turn the dial, but it's still too stiff. Worse still, if you want to get to the Night Scene mode, for example, you have to click through all the others to get there.

A full set of PASM modes is all very well, but the Kodak betrays its amateur leanings by combining them under a single setting. You then have to use a further control to switch to the one you want. This is a 'jog dial' control wheel positioned on the front of the handgrip – rotate the dial to choose one of a number of options, and then press on the dial to 'OK' it.

You have to use the jog dial in PASM mode to first select which parameter you want to change from four on-screen options. These are the exposure mode, aperture setting, shutter speed and EV compensation. Once you've chosen which parameter you want to change, click the jog dial to select it, and rotate the jog dial again to change that particular parameter. To alter a different parameter you have to click again, rotate the dial to select the new parameter, click again and rotate the dial to alter it... it's a very elegant and efficient combination of controls, but it's just too darned fiddly.

Good shots

This is not a Kodak-bashing exercise. Far from it. Kodak cameras routinely provide a great blend of value, robustness and image quality. Indeed, in

terms of photographic performance, the DX6490 really is very good. Images are sharp, well exposed and colourful – and without that exaggerated, synthetic colour that was a trademark of some earlier Kodak models.

The start-up time is a little leisurely at around four seconds, and the AF does hunt around a bit in low light but, in most conditions, the Kodak is responsive and quick, and while focusing isn't instantaneous, it's of the usual order of half a second or so. Ultimately, though, the DX6490 is going to have to come down from its launch price if it's to compete successfully against the Minolta DiMAGE Z1, Fujifilm FinePix S5000 and Olympus C-750UZ.

Head-to-head

The FinePix S5000 is probably its most serious rival, and a side-to-side comparison reveals just how far behind the Kodak is. Currently, the FinePix is cheaper, better made, clearly laid out, easier to get the best from and infinitely more satisfying to use. To make any headway against its big-name rivals, the Kodak DX6490 has to be cheaper or better. Sadly, it's neither. ■



KODAK DX6490 FULL SPECIFICATIONS

Sensor	4-megapixel, 1/2.5-inch 4.1 MP CCD	Other features	EasyShare image tagging and organisation
Lens	Schneider-Kreuznach Varioagon f2.8-3.7 10x zoom	Image storage	16MB internal memory, SD card
Focus	Auto, 12cm in macro mode	Batteries	Lithium-ion rechargeable, KLIC-5001
Exposure modes	Program AE, aperture-priority, shutter-priority, manual, and scene modes	Battery life	126-210 shots (depending on usage)
Metering	Multi-pattern, centre-weighted, spot	AC adaptor	Yes
Monitor	2.2-inch, 153,000 pixels	Weight	310g (without battery or card)
AE compensation	+/-2EV in 0.3EV steps	Dimensions	99.6mm(w) x 79.9mm(h) x 81.2mm(d)
Flash	Auto, on, off, red-eye	Transfer	USB
Video output	PAL or NTSC	Software	Kodak EasyShare
Movie recording	320 x 240 at 24fps with sound	OS	Windows 98/Me, 2000 or XP. Mac OS 8.6 0r 9.x, OS X 10.1.2 or later

WORTH A LOOK

FUJIFILM FINEPIX S5000
£360, 3.1MP



OLYMPUS C-750UZ
£450, 4MP



MINOLTA DIMAGE Z1
£330, 3.3MP



HP PHOTOSMART 945
£400, 4MP

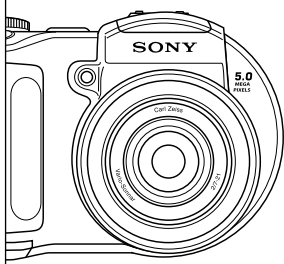
verdict

It's new, it's powerful and it's sophisticated. But it's not enough...

Kodak's good at designing snapshot cameras for beginners. But when it comes to more advanced enthusiast-orientated markets like this one, it's another story

FEATURES	88
IMAGES	87
BUILD	78
VALUE	70

81% FINAL SCORE



SONY MAVICA CD500

Price	£550
Resolution	5 megapixels
Lens	f2.0-2.5 3x zoom
Memory	156MB 8cm CD-R/CD-RW
Battery Life	220 shots/110 minutes
Contact	08705 111 999 www.sony.co.uk



SAMPLE IMAGES ALL THESE IMAGES CAN BE FOUND ON OUR CD/DVD

Sony Mavica CD500

Cut out the middle man! Write your photos direct to CD with the Mavica CD500, and save yourself time, if not money...

ON OUR COVERDISC



ZOOM & COMPARE

Check out our brand new image comparison system on the disc!

ON OUR WEBSITE

OPINIONS & SHOPPING

Post your views, see what other readers think then buy this camera!

dcmag.co.uk/sony

DIGITAL RANGE SONY



DSC-F717
Price: **£700**
Megapixels: **5**



MAVICA CD500
Price: **£550**
Megapixels: **5**



DSC-V1
Price: **£500**
Megapixels: **5**



DSC-P10
Price: **£350**
Megapixels: **5**



MAVICA FD200
Price: **£300**
Megapixels: **2**

REVIEWED! Go to p111
See Buyers' guide for full rating

Memory cards aren't the only way of storing images within digital cameras. Indeed, for many users, they're not the best way, either. It's the cost of memory cards and their comparatively limited capacity that's the biggest problem, and one that the Sony Mavica CD500 addresses. It doesn't use memory cards at all, relying instead on a built-in CD-writer to burn images directly onto CDs.

They're not ordinary CDs, though. These are special 8cm miniature versions with a capacity of just 156MB instead of the usual 650MB. Otherwise, it's like using normal writable CDs. The 8cm discs will even fit into most CD trays, and for those occasions where they don't work, an adaptor's provided.

Using CDs to store images makes a lot of sense. Sony's own recommended media are more expensive than conventional blank CDs, at £3 to £5 each, depending on the quantity you buy. This is still a lot cheaper than memory cards, though – 156MB for £3 works out at 2p per megabyte. You can save shots straight to a comparatively cheap archiving medium on the spot, instead of having to transfer shots to your computer and burn CDs manually.

Writing process

There are certain (though surprisingly few) operational limitations. The CD-burning process doesn't consume as much power as you might imagine – the Mavica can shoot around 220 shots on a single charge, which isn't bad – but the CDs used do need special preparation. Blank CDs first have to be 'initialized', a process that takes a few seconds and has to be carried out on a flat surface with the camera completely still. And before a CD can be removed, it has to be 'finalized'. Again, this takes several seconds, and the camera has to be left undisturbed on a flat surface.

The CD mechanism does compromise the Mavica's performance in two other respects. It takes longer to 'write' images once you've shot them, and start-up can occasionally take longer as the camera checks the disc. The most noticeably penalty is during playback – images



HANDGRIP
The Mavica's a real fist-sized camera, and it's a lot closer to the size of a digital SLR than a compact



LENS
That Carl Zeiss lens looks oddly familiar. PowerShot G2, anyone, Lumix LC5, QV-3500, PhotoSmart 735?

are first displayed at low resolution, and the camera takes several seconds to read the data from the CD and render a full-res version.

Handling and controls

Otherwise, though, taking photographs with the Mavica is just like using any other digital camera. It's a lot bigger and more solid feeling than any other non-SLR model, but that's a positive advantage if you like your cameras chunky.

You might imagine that a camera that writes images direct to CD is a specialised business tool, rather than a camera for enthusiastic photographers. Nevertheless, Sony has built in some more advanced photographic

options into the CD500, and made them clear and accessible, too.

For example, you get a full set of PASM (program AE, aperture-priority, shutter-priority and manual) exposure modes, and each one has its own setting on the big and chunky mode dial. There are scene modes, too (Twilight, Twilight Portrait, Landscape, Portrait, Snow and Beach), but these share a single SCN position and must be selected using the menus – they're secondary, then, in the control layout, which is how serious photographers will prefer it.

The controls themselves deserve some comment. The Mavica uses a jog dial mounted on the back of the camera to control the shutter speed, aperture



MODE DIAL
The Mavica's a serious photographic tool with separate program AE, shutter-priority, aperture-priority, manual and scene modes



LCD
The Sony's 2.5-inch LCD is good for composing still shots and movies, and playing them back, too



NAVIPAD
The Sony's control layout is logical and effective, but that navipad is just too small and vague, and the central 'OK' action is difficult to get right

You'll be impressed at how a camera that employs such unusual technology can end up so versatile and satisfying to use

setting and EV compensation. Kodak's adopted an identical system for its DX6490 (reviewed this issue), though the Sony's controller is just a bit more positive and controllable.

In order to change the metering pattern (multi-pattern, centre-weighted and spot), white balance, quality setting and other options, you need to press the Menu button. This will display the usual Sony menu structure, with menu headings running along the bottom of the screen and the menus opening upwards. It works a little better on this camera than it does on other Sony models (maybe because the 2.5-inch LCD used here is much larger and the menus less cramped), but the five-way navipad is disappointingly vague, especially if you're trying to activate the central OK action.

Performance

The lens on the front of this camera looks rather familiar. What are the chances of Canon, Leica and Carl Zeiss all producing a 7-21mm f2.0-2.5 3x zoom independently? We've no way of telling whether this lens is optically different from these other variants to justify the different branding, but it does go to show that the digital camera world is smaller than you think.

Whatever its origins, the lens does a good job and the extra speed from the fast f2.0 maximum aperture is especially useful in dim lighting. The Sony's AF speed is good, too, though it would help if the focus confirmation was more positive and the shutter was a little less easy to trip while you're keeping it half-pressed.

Like other cameras, the Sony has a multi-point AF

system. Here, there are three horizontal AF points and two more, one above and one below this row of three. And, like other cameras, the Sony allows you to choose the focus point manually. It's much easier here than usual, though, thanks to the slick action of the jog dial.

The Sony's image quality is really very good. The contrast is maybe slightly down on what the best of its rivals can do, and the same goes for ultimate detail rendition, but the Sony's still very good by any standards, and you're not likely to be disappointed.

Indeed, you'll be impressed at how a camera that employs such unusual technology can end up so versatile and satisfying to use. It doesn't cramp your photographic style at all and turns in some very good images. It's a little expensive compared with ordinary 5-megapixel cameras, but not excessively so.

Indeed, it compares quite favourably with the likes of the Canon PowerShot G5 and Olympus C-5050. The Mavica CD500 isn't the expensive novelty the technology might lead you to imagine. It's actually a very interesting alternative solution for any photographer. ■

SONY MAVICA CD500 PERFORMANCE

SKIN TONES



PRO Very nice looking skintones (possibly a little on the red side)

CON A touch more contrast and fine detail definition wouldn't hurt in general

OUTDOOR SHOTS



PRO Outdoor results from the Mavica are very good indeed

CON A bit more contrast would be good. Its shots still look a fraction on the flat side

INDOOR SHOTS



PRO Very good indoor shots, aided by that fast f2.0 lens and simple flash options

CON The LCD does grain up noticeably under indoor lighting, developing a strong red cast

IMAGE QUALITY



PRO Fine detail is very good, though not exceptional by today's 5-megapixel standards

CON Lacks the 'punch' of the Canon PowerShot G5, say, or Olympus the C-5050



SONY MAVICA CD500 FULL SPECIFICATIONS

Sensor	5-megapixel, 1/1.8-inch 5.3MP CCD
Lens	Carl Zeiss Vario Sonnar f2.0-2.5 3x zoom
Focus	Auto, manual, 4cm in macro mode
Exposure modes	Program AE, aperture-priority, shutter-priority, manual, and scene modes
Metering	Multi-pattern, centre-weighted, spot
Monitor	2.5-inch, 123,000 pixels
AE compensation	+/-2EV in 0.3EV steps
Flash	Auto, on, off, slow, red-eye
Video output	PAL or NTSC
Movie recording	640 x 480 with sound

Other features	Low-cost permanent image storage
Image storage	8cm CD-R/CD-RW
Batteries	Lithium-ion rechargeable, NP-FM50
Battery life	220 shots/110 minutes
AC adaptor	Yes
Weight	606g (including battery and disc)
Dimensions	138.5mm(w) x 95.7mm(h) x 103.1mm(d)
Transfer	USB
Software	Pixela ImageMixer
OS	Windows 98/Me, 2000 or XP. Mac OS 8.5.1, 8.6, 9.0-9.2

Canon PowerShot S50	OLYMPUS C-5050	SONY CYBERSHOT DSC-P92	FUJIFILM FINEPIX M603 WITH 340MB MICRODRIVE
£600, 5MP	£500, 5MP	£350, 5MP	£350, 3.1MP



verdict

Expecting a portable CD-writer with a lens? The reality's slicker

The Mavica's a big camera, true, but that proves the only drawback to its unique storage system. Price, performance and photographic control are all surprisingly competitive

FEATURES	90
IMAGES	89
BUILD	88
VALUE	83

FINAL SCORE
88%

Adobe Photoshop CS



IMAGE EDITOR After all the speculation, it's finally here. Photoshop 8 has been unveiled and we've got our hands on a final pre-release copy...

INFO

PHOTOSHOP CS

Price £605

Manufacturer Adobe

Tel 0870 606 0325

Website www.adobe.co.uk



Windows

Mac

Little introduction is necessary for Photoshop, the world's favourite image-editing software. It has been going for years and Adobe has now released the latest update, which we first reported on in Viewfinder, way back in issue 12.

Photoshop 8 has been given the new moniker of Photoshop CS to bring it in line with related Adobe titles Illustrator, InDesign and GoLive which, along with Acrobat Professional 6.0, form part of the new Creative Suite bundle. By grouping the titles together in such a way, Adobe plans to synchronise future upgrades of its titles in an attempt to improve cross-application compatibility.

And tying the whole bundle together is a new complimentary asset management system known as Version Cue which ensures documents are available across the board. Fortunately, you can still get hold of Photoshop on its own, so if the entire suite is too much, read on as we explore what's good, bad and ugly about everyone's favourite image editor.

Despite its name, Photoshop, has become much more than a simple photo-editing application; graphic designers, video producers and web designers all have their own slant on how the flexible tool can be used.

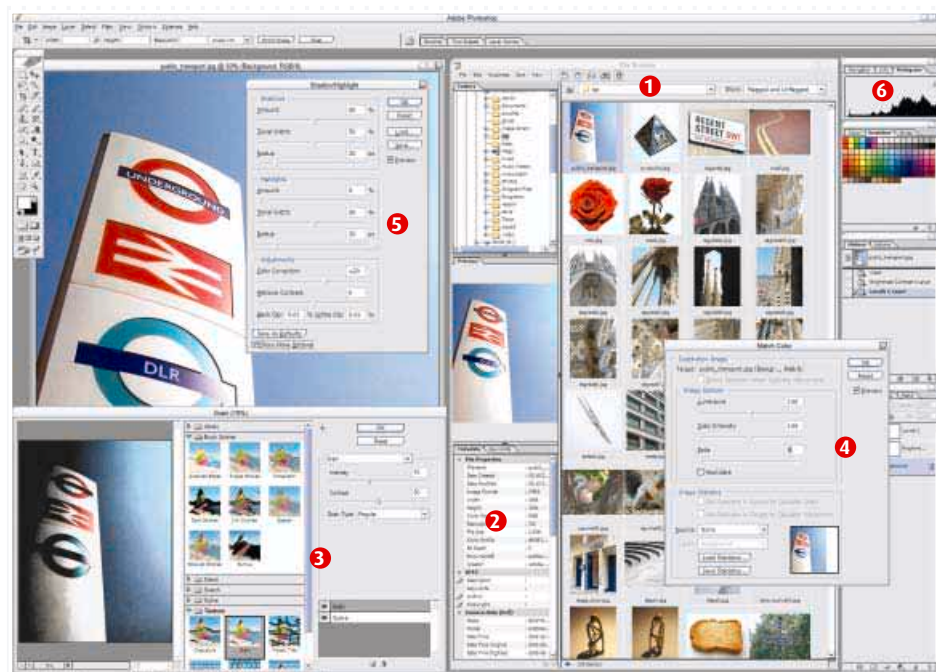
First impressions

The interface remains untouched, so existing users will be happy jumping straight into their familiar environment. The File Browser proved to be an essential feature in 7.0, and this has been enhanced to become a more self-contained component including keyword association, supporting flags and editable metadata, making the organisation of your assets more manageable.

With its new-found support for 16-bit images there is additional help with colour management, both through the regular help files, as well as through the Welcome screen. This provides access to tutorials and features to help users get up to speed with the new version.

Work can now be distributed through various means, including the creation of web photo galleries and, more powerfully, with the ability to share projects within multi-page PDF documents. The influence of the Layer Styles method comes into play with the new Filter

The interface in more detail



[01] ENHANCED FILE BROWSER

The File Browser supports image flagging, so only relevant images are visible.

[02] KEYWORD ASSOCIATION

Self-defined keywords can be associated with images to help you manage your collection.

[03] FILTER GALLERY

Experiment with plug-ins by combining and configuring filters, and determine their order before committing changes.

[04] MATCH COLOURS

This allows an image's colour balance to influence the levels of another to create consistency between artwork.

[05] SHADOW/HIGHLIGHT

The new Shadow/Highlight adjustment tool provides quick and easy colour correction.

[06] HISTOGRAM PALETTE

The new histogram palette provides a constant indication of how your images are affected by changes.

Gallery, where multiple filters can be experimented with before final application is made to the image.

More specifically for the photographer are various additions to help streamline the production flow. Raw images can now be worked on directly through new calibration controls and customised profiles for specific camera models. Colours can be matched across files to create consistent results, and the new Histogram palette provides a constant display as a visual indicator of any amendments you may be working on.

Maintaining balance

Similarly, exposure problems are made less of a headache using the new Shadow/Highlight Adjustment, which preserves overall balance while intelligently correcting problem areas. And the science of colour replacement also becomes much simplified through the new Colour Replacement Tool. Lens blurs can be emulated through the new filter, panoramic stitching becomes possible, and cropping and straightening scanned images is virtually automated.

The number of new features and enhancements goes on and is far too long for us to dwell on over a single page, especially when you consider we haven't even touched on areas that will be of specific interest to other media. This includes editable text along a path, nested layer sets and non-square pixels, not to mention the changes to Photoshop's sister application, ImageReady.

Suffice to say, that Photoshop CS will continue to dominate the graphic-editing market as it has throughout its 13-year history. The best has got even better – the only decision now is whether to stick with the title on its own or consider the strengths available through the entire suite.

97% FINAL SCORE

KEY FEATURES

■ **File Browser** This familiar feature has been considerably upgraded to provide more powerful asset management options.

■ **Colour control** Match colours across files, histogram palette and shadow/highlight correction... all at 16-bit.

■ **Raw support** Make use of higher quality source material by working directly with raw data files.



The new Welcome Screen helps users get to grips and manage the software through tutorials



The Histogram palette in expanded mode gives an overview of individual channel levels

CorelDraw Essentials 2

GRAPHICS APPLICATION Can Essentials really capture, edit and publish your work from a single application?

INFO

CORELDRAW ESSENTIALS 2

Price £60
Manufacturer Corel
Tel 01628 589800
Website www.corel.co.uk



KEY FEATURES

- **CorelDraw Essentials 2** Graphics and page layout
- **Corel Photobook** Photo retouching and editing
- **Corel PhotoAlbum** Photo albums and organising
- **Quick Start Manager**

There's been a rise in the number of budget applications aimed at digital photographers in the last few years. CorelDraw Essentials 2 is the latest, and upgrades the original, which was based on the popular CorelDraw package. The reduced version provides many of the options from its more fully-featured cousin, and has a few additional tricks up its sleeve, aiming to provide an all-in-one solution.

Essentials comes with Corel PhotoBook and PhotoAlbum. PhotoBook caters for any photographic

editing requirements you may need, but the heavily Wizard-based approach leads to some limitations in what can be achieved when compared with Photoshop Elements or Paint Shop Pro. However, PhotoAlbum provides additional options not found in these titles for the organisation and display of your work.

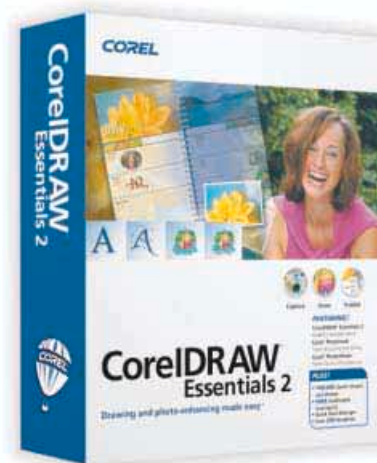
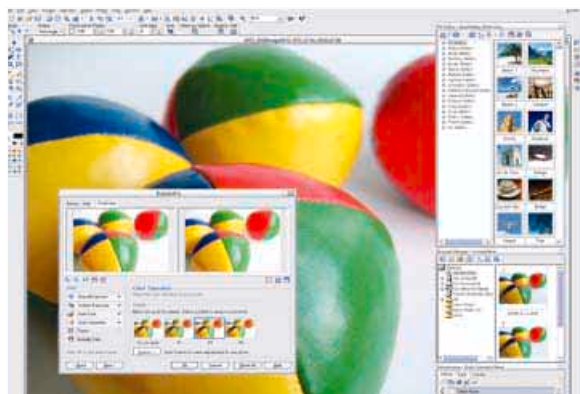
Fully featured

Similarly, Essentials itself is full of features that can't be found in such titles. With its leanings towards

vector output and page layout the application provides tools for the creation of documents that can be easily created with your adjusted images.

Holding the suite of tools together is a useful Quick Start application that enables you to jump into related tools as well as offering access to templates, help files and tutorial videos at the click of a button.

With over 250 templates available, you can be sure to find something that will get you started as you plan your first print layouts



The interface is simple; you'll pick up the basics in no time. The hard copy documentation may seem initially a little thin, but it covers more than is necessary to master the basics, and comprehensive online help files and documentation will soon have you stretching both your own and the software abilities. There's also a CD with video tutorials, courtesy of Lynda.com, plus two CDs containing over 100,000 clip art images from Hemera.

As a photographic image editor, the suite is sometimes lacking, but this is more than made up with the vector and layout options. If you're looking for something that will allow you to do more with your images than just clean things up then Essentials 2 is certainly worth considering.

82% FINAL SCORE

Ulead PhotoImpact XL

IMAGE EDITOR The new version of PhotoImpact comes with a little Xtra...

PhotoImpact is a long-standing favourite among novice photographers, due to its ease of use, low price and range of tools. The new XL version is bundled with a raft of features making it more of a suite. It includes Photo Explorer 8 for asset management, GIF Animator 5 with its web-animation abilities, COOL 360

for stitching panoramic image sequences, and PhotoImpact Album for more advanced database asset organisation.

The key new features are mainly filter- and production-based. Novice users will appreciate the ExpressFix tool that automates the colour balance and adjustment process. This is complemented by the Remove Colour Cast option.

INFO

PHOTOIMPACT XL

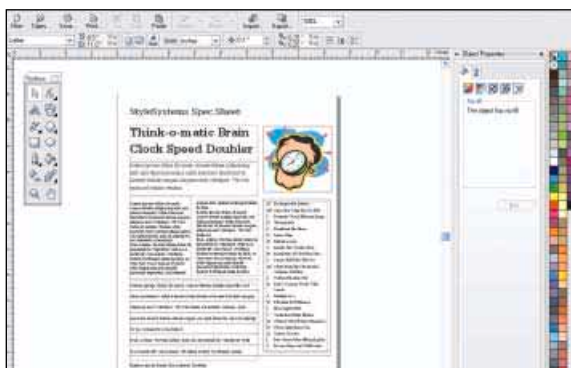
Price £60
Manufacturer Ulead
Tel 01256 707769
Website www.ulead.co.uk

The High Dynamic Range feature is of particular interest. This combines several shots of a subject taken at varying exposure levels to extend the perceived tonal range.

There are also video tutorials, Hemera clip art, plug-ins from Alien Skin Eye Candy and a collection of GIF animations to enhance your work.

While PhotoImpact isn't for everyone, its new features make it a worthy contender for your image-editing needs.

83% FINAL SCORE



The new ExpressFix tool lets you preview routine image changes

Wacom Graphire 3 Studio

GRAPHICS TABLET At last, an affordable professional graphics tablet

Most of us get by using a mouse with our image-editing software. It's not ideal, and the control is a bit brutal, but you get used to it. If you find a mouse satisfactory, don't try a graphics tablet... unless you can afford one. Once you've tasted its fine control, you won't want to go back to a mouse.

Wacom is the market leader in serious graphics tablets; the release of the Graphire 3 Studio A6 tablet for £99 offers the chance for most of us to get our hands on a graphics tablet that has up to 512 levels of pressure sensitivity. With that sort of control, you can draw accurately with a graphics tablet, and vary the thickness of pen strokes.

INFO

GRAPHIRE 3 STUDIO

Price £100
Manufacturer Wacom
Tel +49-(0)2151-36 14-0
Website www.wacom.com

The Graphire 3 Studio comes with a dual-ended pen that has a tip for drawing and a blunt point at the other end for erasing. There's also a programmable toggle switch on the side of the pen's shaft.

A bundle of software is thrown in, including Adobe Photoshop 2 for the Mac and PC, Pinnacle Studio LE, PenPalette LE and ACDSee photo database software.

Digital photographers will find this a great value graphics tablet.

90% FINAL SCORE



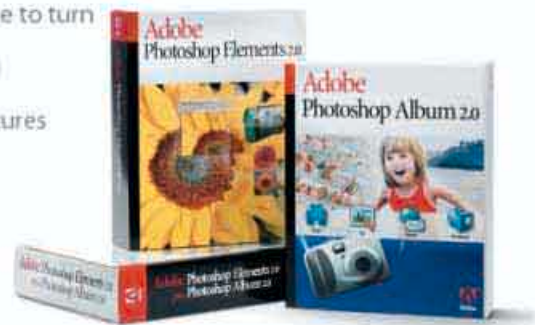
The Graphire 3 Studio is an A6 tablet bundled with software



**I'VE GIVEN UP
TRYING TO MAKE
MY HUSBAND
LOOK BETTER.**



Trying to fix a digital picture is no honeymoon. Even if it's a picture of someone you cherish. Here's how to get things back on track. Use Adobe® Photoshop® Album. It's perfect for those just starting out. Then, when you want to get a little more involved, use Adobe® Photoshop® Elements. Whether you're ready for commitment and want to buy the bundle or want to take things a little slower with just one, visit Jessops, John Lewis, PC World or Staples. Either way, you'll soon be able to turn pictures you like into pictures you love.



JESSOPS John Lewis

PC WORLD
The Computer Superstore

STAPLES

For more information visit: www.adobe.co.uk/digital

Tools for the New Work™  Adobe

Viewfinder

We want your letters! Email us at letters.dcm@futurenet.co.uk and we'll print the best

Interact

From our online forum

Our website forums offer a wide range of topics, advice and tips for newcomers and experienced photographers alike. This month, talk turned to the moon...

David Hilton: I have just tried to take image of the moon – a clear night, almost full moon and a new digital camera. The camera will not focus – all I get is a smudge on the LCD. Is there a secret to focusing? I've tried the camera on one and two second exposures, auto focus and manual, but still blurred the image in the LCD before taking the picture...

John Piper: Did you use a tripod? Essential for long exposures. If you have manual on your camera, I would imagine you would need to set focus to infinity if possible.

Paul Ward: I tried to take some of the moon with a 300mm lens on my Canon10D. I took loads to try out different effects, and longer exposures were more blurred than shorter ones, the best one was taken at 1/90 exposure at f 5.6 at 100 ISO.

David Hilton: I used the car window. Using Fuji S5000 which has a good telephoto lens, think I now know where the problem was, needed manual focus, which was because its new, and I'm a novice, I did not know how to use it on manual focus – turns out to be 2 button presses at same time.

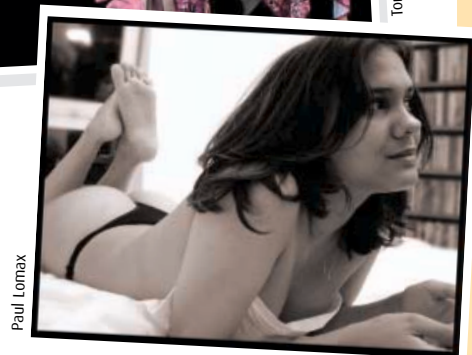
Jason Canning Email member: The moon is a lot brighter than people think. I've taken some reasonable pics at f9.5 1/45sec, the only problem is the darn thing is so far away. Even with a 200mm lens and a 2x teleconverter I still only fill a small portion of the frame.

Now it's your turn!

To join this discussion and others like it, go to our website forums at www.dcmag.co.uk/forum



Tom Powell



Paul Lomax

STOP THAT MAN

I love your magazine and I am enjoying the Photographer of the Year competition immensely. I was chuffed at being joint 18th in the Portraits category given it was my first attempt. However, I must complain about the third place picture, 'Girl with chick'.

I'm sure the rules stated any picture could not have been submitted to any other competition, but I think you'll find it has been printed in another magazine's competition page. I understand that you rely on the honesty of the people submitting entries, and I think this is entirely unsporting of them. I know this is not your fault but I think the said entrant should be disqualified.

Ivan Barnsdale

DCM You're absolutely right, Ivan. We do rely on people's honesty and on our readers being sharp-eyed enough to spot entrants who flout the rules. We have disqualified the photographer from our Photographer of the Year competition and the prize will be shared between Paul Lomax and Tom Powell, who

Star letter Like father, like son

First, I'm really taken by the magazine. What I especially enjoy is the thorough focus on technique and the good advice available to budding photographers to which I'd now like to add. I am totally hooked on digital photography and one of its strengths, for me, is the freedom to take as many shots as I like without having to worry about processing costs. I can review shots as soon as I take them and then again when I get home on my PC.

This has helped me develop the practice of taking as many shots as I can, in order to increase the chance that one or two will come out looking good! I'll call it the 'shoot 'n' hope' technique! However, I'm learning that no amount of luck can replace careful thought and a little more time taken before pressing the shutter release. And until cameras come with auto-composure, I will have to work hard at this.

I learned my lesson when I took my camera on holiday. Although I have plenty of CompactFlash cards and spare batteries, I was worried that I would run out of both of them. This made me much more cautious, forcing me to stop and think about exposure, camera settings (I won't tell you how many times I forget to reset the ISO) and one of the most crucial adjustments, where I stood!

I know there's nothing new in all this, and how often has it been said there is no substitute for having a good photo to start with when you get to image editing? What I am suggesting is there is a downside to one of the key strengths of digital photography. Being able to shoot hundreds of photos drains batteries and swallows memory; it leaves you having to trawl hundreds of pictures looking for the keepers and can make us lazy. And now I sound like my parents!

Martin Coleman

DCM There's no doubt that taking your time in setting up a photo, if possible, makes the biggest difference to the final quality of the image. Sure, software can help out, too, but the better the initial image, the better the final result is going to be.

STAR LETTER PRIZE

The Star Letter wins an HP Photosmart 935 digital camera, worth £399.99! Sporting a superb 5-megapixel resolution and 3x optical zoom, it comes complete with a 32MB memory card. Find out more about the Photosmart 935 at www.hp.com.



came joint fourth last month. You can see their pics here – apologies for not having the space to print them any larger.

BACK IN THE SADDLE

Just a note to say thanks for firing a lost passion. I used to be an avid photographer but, for personal reasons, I sold all my cameras and photography equipment, and dismantled my darkroom around 13 years ago.

Well, a few months back I happened upon a copy of Digital Camera Magazine and was completely absorbed by its contents. I have since been buying it regularly and, after reading your

review of the Olympus 5050, I bought one. I have not looked back since. Talk about a kid with a new toy: what a fantastic camera it is for its size, I love it and I love getting out and snapping the world around me again. Once again, thanks DCM for a great magazine.

Allen Kelly

DCM The wonderful thing about digital photography is that it's bringing thousands upon thousands of people, like Allen, back to a hobby they love, fuelled by complete control over the final image. It's a revolution – and it's only going to get bigger!

ReaderSpotlight



I started taking digital photographs in 1999, when I bought a Kodak DC210 Zoom. I have always been keen on taking photographs (we're talking decades here) and when the expenses mounted I started to look for a more economical way to produce pictures. On top of that, I've always enjoyed doing my own processing.

After moving from Staffordshire to Cambridgeshire I never had the room to pursue the darkroom side of things but I still hankered after producing my own photographs without a trip to Boots! I began to realise that there was definitely a future for me with digital photography

My best moment was when my wife was putting some washing out I noticed some wasps attacking an apple growing on our tree. I rushed indoors, fetched my camera and just

took a few shots. I never really gave it much thought, just grabbed half a dozen frames. Three days later, I realised how lucky I'd been. Just away from the wasps there was a fly, stealing a tiny morsel of apple

– most audacious! I hadn't noticed it when I took the shots. I guess you need a little bit of luck sometimes.

This month (November) nature tells me I'm 50 years old! Trouble is my mind says I'm still 21 and I walk for miles with a bag of equipment, which would be better suited being carried by a younger man! I've been married 30 years and we have three children and one grandson. I was born on the Isle of Wight and I'm reaching the point in my life where I'd like to be back by the sea again, but not on an Island. I just love taking seascapes and photographs of boats, but there's not too much of that around here in Cambridgeshire. I have a passion for aviation and I just can't stop taking pictures of aircraft.

I've got two favourite tips. The first is make it simple. The second is a bit more involved. Take one photograph of a subject and then allow yourself two minutes to think how you could improve it. Strange thing is, 9 times out of 10 you always will. That only holds true if there's sufficient time for a second go.

I have a Nikon D100 and a couple of Nikon film SLRs, just to remind myself of what life used to be like. I travelled a lot with my job and I used to resent the fact I couldn't take all my equipment with me so I bought a little Olympus C5050. What a great travelling companion that is. I'm amazed at the quality I'm able to achieve compared to what is getting 15 years ago with traditional methods.



PNY
TECHNOLOGIES

Trust our Memory to capture the moment

Multimedia Card
64MB-128MB

Compact Flash
64MB-1GB

Secure Digital
64MB-512MB

SmartMedia
64MB-128MB

Want to ensure your photos or important files are stored forever? PNY has developed a cost effective range of Flash media products to suit all your needs. With Compact Flash cards ranging from 64MB right up to an impressive 1GB, you can store valuable data quickly, easily and safely.

Special offers available at

Currys

www.currys.co.uk

Dixons

www.dixons.co.uk

PC WORLD
The Computer Superstore

www.pcworld.co.uk

Visit www.pny-europe.com for the full range of PNY products

Trailblazers

Travel the world, see interesting things and shoot them



WINNER!

FERGUS MCCARTHY FLAINE, THE FRENCH ALPS

"I had stopped to take a few shots of some snowboarders, when I spotted this guy." Nikon D100



02 Photographed by:

Jason Canning

Location: Salzburg Zoo, Austria

Camera used: Minolta

DiIMAGE 7Hi

03 Photographed by:

Adam Nolan

Location: North Cornwall,

England

Camera used: Canon EOS 300D

Trailblazers 



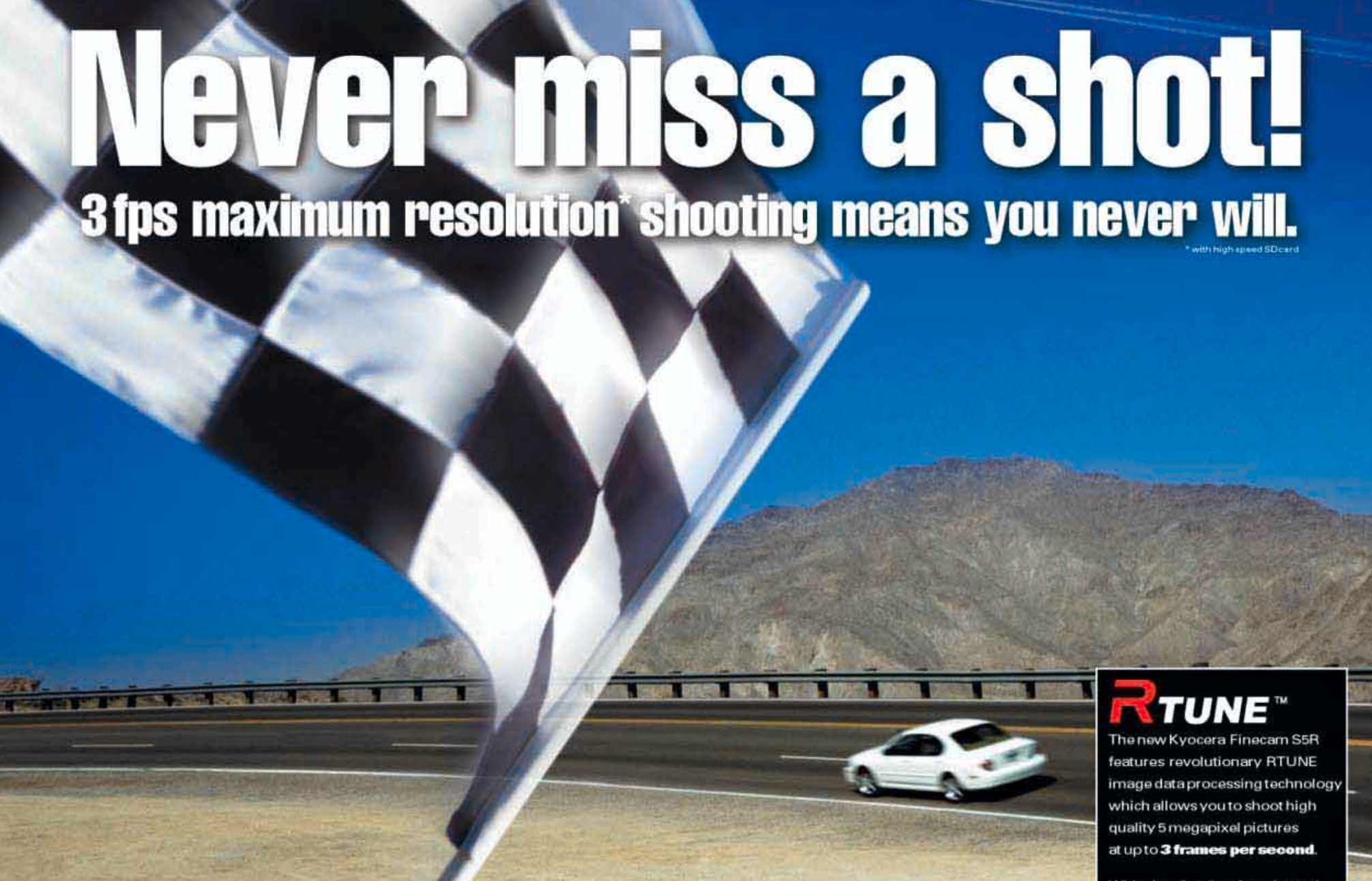
Get your picture framed!

Send them in and the winning image gets framed and returned. We're looking for landmarks, unusual events or just something fabulously composed. Start planning that trip away! ■ Email us at gallery.dcm@futurenet.co.uk

Never miss a shot!

3 fps maximum resolution* shooting means you never will.

* with high speed SDcard



Finecam S5R

There are plenty of ultra-compact 5 megapixel digital cameras available but the Finecam S5R leaves the rest staring at its tyre tracks with its ability to shoot in full resolution continuously at 3 frames per second. Of course the advanced technology doesn't end there: a state of the art 1.6" SunBrite-TFT™ LCD screen means you can review your images wherever you are, the high powered lithium-ion battery and power saving technologies provides extended usage, there is a high performance movie mode with sound, a high quality 3x optical zoom lens (with variable 12x digital zoom) plus a host of other high end features. The camera is supplied complete with a 16MB SD card, lithium-ion battery pack, battery charger, USB cable, drivers and imaging software.



THE NEW VALUE FRONTIER



www.finecam.co.uk

Kyocera YASHICA (UK) Ltd, Kyocera House, 111 Loverock Road, Reading, RG30 1DZ Telephone 0118-933 7000 Fax 0118-958 7950
Kyocera Corporation (Head Office): 6 Takeda Tobadono-cho, Fushimi-ku, Kyoto, 612-8501 Japan

RTUNE™

The new Kyocera Finecam S5R features revolutionary RTUNE image data processing technology which allows you to shoot high quality 5 megapixel pictures at up to **3 frames per second**.

With ultra-fast 'lag-free shutter' operation and this high-performance continuous drive mode – you won't miss a shot, however fast it happens.

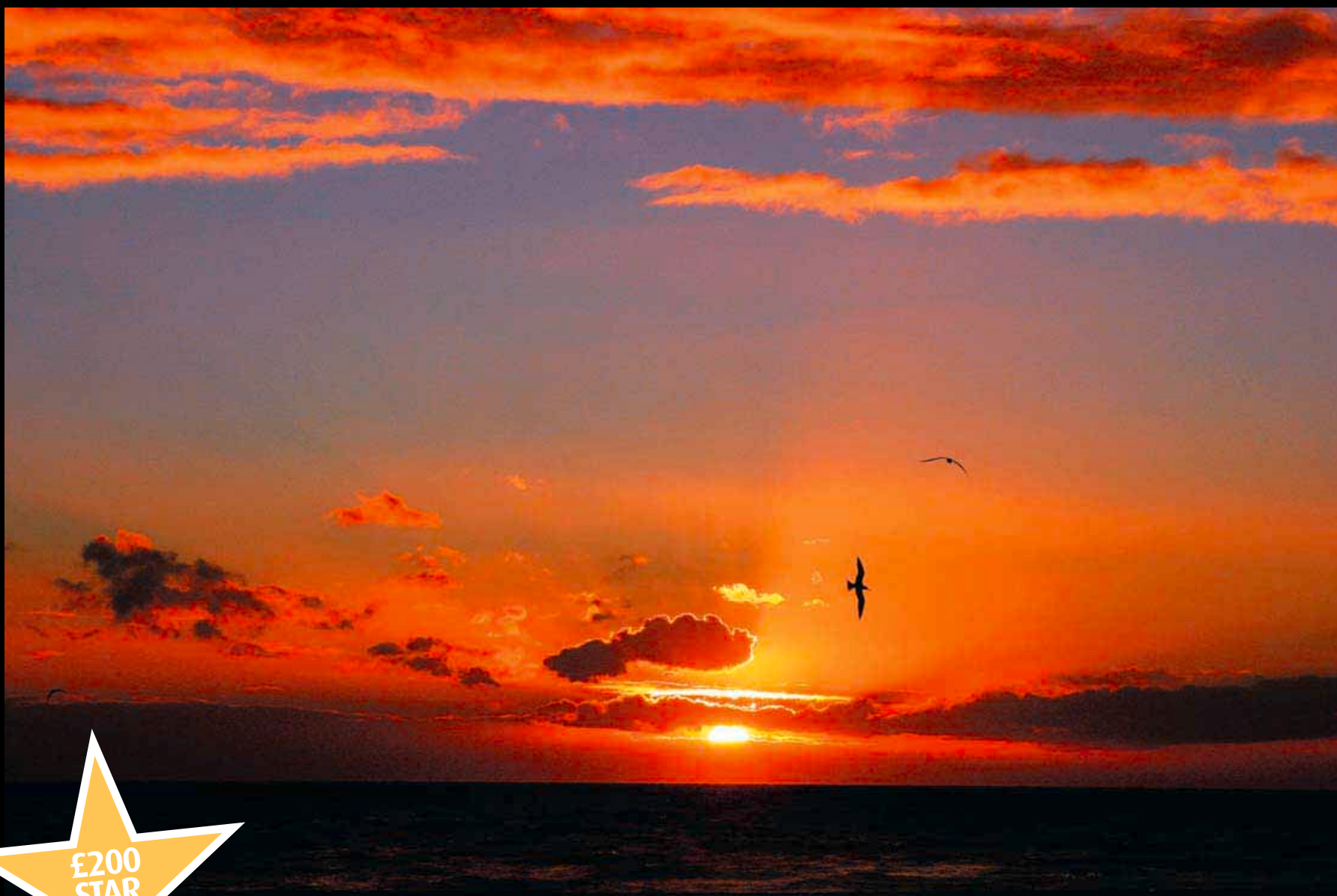


DCM Photographer of the Year

in association with
JESSOPS
NO.1 IN PHOTOGRAPHY



The Sunsets section of our competition drew an amazing response with hundreds of high-quality entries. Here are the winners...



 **Gary Sissons**

NAME OF PICTURE One good tern

What a fantastic big-sky sunset! It's got everything going for it – graduated sky colour, brightly illuminated clouds, excellent composition and a splash of life in the two birds. A clear winner of the Photographer of the Year second stage.



Email editor.dcm@futurenet.co.uk with your entries today! You can send in up to three photographs for this month's competition – we'll only count the best scoring shot towards your DCM Photographer of the Year total. Good luck!

CHRIS JONES Fiddlers Ferry power station

It just goes to show that just about anything can make a good subject for a photograph when the light is right. Brilliantly moody, with muted colours reminiscent of 1970s postcards – wonderful stuff.



£50 PRIZE

DCM Photographer of the Year

in association with JESSOPS

Some of the early entries from last month's Black and White stage



DCM is giving you the opportunity to become the Digital Camera Magazine Photographer of the Year. Each issue features a different subject for you to go out and photograph. There are great prizes for the winner of each issue's competition, plus an absolutely superb prize for the Photographer of the Year. Each issue's winner gets £200 of Jessops vouchers, and two runners-up get £50 each. The overall winner gets a staggering £1,000 worth of Jessops vouchers to spend as they see fit!

To qualify for entry for the grand prize, you need to enter a minimum of four out of the six stages, so don't worry if you missed out last month. Every entry will be awarded a mark out of 100. (Send up to three – we'll count your best score.) The scores from all six individual competitions will be added together, and averaged, giving the final positions. We'll be printing the full table at www.dcmag.co.uk every month.

THIS MONTH'S COMPETITION: MACRO

We want your macro shots! Close ups of anything and everything, inside or out, living or inanimate! The winners for this fourth round will be announced in our February issue. Send your entries to editor.dcm@futurenet.co.uk with the subject line 'Macro comp'. A file size of 1MB is ideal. Only one photo per email and maximum three entries per person per month. Entries must be received on or before 2nd Jan 2004.

You may enter up to three photos each month but only the best one will count towards your total. A cash alternative to the prizes is not available. We reserve the right to substitute prizes of equal or greater value. The editor's decision is final. No correspondence will be entered into. Do not send CDs, memory cards, printed materials, etc – this is an email-only competition and we cannot be held liable for the loss of any materials. By entering the competition, you agree to grant us an exclusive three-month license to publish your photos in any manner we see fit, in any medium, in conjunction with the competition. After three months, this changes to a non-exclusive license on the same terms. All entries to the competition must be previously unpublished

PRIZES ARE COURTESY OF EUROPE'S LEADING PHOTOGRAPHIC RETAILER



VISIT ANY OF OVER 250 STORES ACROSS THE UK,
CALL JESSOPS DIRECT ON **0800 652 6400**, OR
BUY ONLINE AT **WWW.JESSOPS.COM**

£50 PRIZE



GRAHAM HENSHAW Koh Phi Phi, Thailand

Fabulous colours and great composition – along with an interesting collection of silhouettes – make this shot from the beach in Koh Phi Phi a worthy runner up in this month's category.

IDEAS & INSPIRATION FOR ALL DIGITAL PHOTO ARTISTS!

At last, a magazine created by photo editing enthusiasts, for photo editing enthusiasts!
Each month, we show you how to **improve, enhance** and turn your digital photos into **works of art!**

NEW!
**ON SALE
NOW**

IMPROVE YOUR DIGITAL PHOTOS!

Whether you are shooting portraits or landscapes, we reveal the image editing tricks for better results.

UNRIVALLED AUTHORITY

Nearly every tutorial written by published experts!

IDEAS AND INSPIRATIONAL PROJECTS

Take your photos and turn them into works of art! Each month, our projects give you tons of ideas you can try in your own world!

EXCLUSIVE IMAGE EDITING SECRETS

Exclusive tutorials like the Hidden Power of Photoshop Elements, Composition Techniques Explained, guides to Photoshop tools and much more – no other magazine gives you these!

COMPREHENSIVE PHOTOSHOP VIDEO TUTORIALS ON CD

We show you how to use the key features of Photoshop and Elements to help you make better pictures. Plus full creative software and tools, sample files to practise with, and more every issue!

IMPROVE YOUR DIGITAL PHOTOS 100% BEGINNER FRIENDLY

DIGITAL PHOTOGRAPHY TECHNIQUES

PHOTOSHOP • PAINTSHOP PRO • ELEMENTS

GET CREATIVE WITH PHOTOSHOP

- Create this stunning art nouveau print
- Expert photographers show you how

DIGITAL PHOTOGRAPHY CD-ROM

FULL SOFTWARE PhotoImpact 6

Over-exposed pics? Wonky perspective? Fix it all with this full version of Ulead's creative software!

FULL PRODUCT WORTH £89.99

FROM THIS...

CREATE THIS...

PAINTSHOP PRO

12 pages of expert PSP advice, tips, tricks and techniques. Plus! creative project for you to try. Starts on page 30

Photoshop CS

What new features can you expect from the new release from Adobe? We find out in our in-depth preview.

PSP PROJECT INSIDE 2004 VICTORIAN CALENDAR

Take one favourite picture and transport it back in time to create this stunning calendar.

***All tutorial files are included on the cover disc**

ELEMENTS PAINTSHOP PRO PHOTOSHOP 7

SEND US YOUR PICS AND WIN! THIS CAMERA
SEE PAGE 60 FOR DETAILS

PLUS ALL THIS!

- 20 Photoshop filter sins and fixes
- Richard Lynch's Elements tutorials
- Create perfect panoramas
- Paint Shop Pro 8 – insider tips
- 10 brand new plug-ins reviewed

future publishing
9 771479 656005
ISSUE SIX DECEMBER 2003 £4.99

FROM THE MAKERS OF DIGITAL CAMERA MAGAZINE AND DIGITAL CAMERA SHOPPER
WWW.DCMAG.CO.UK

future publishing
Made with passion

POP ART PORTRAIT
CREATE AN IMAGE IN
WARHOL'S STYLE
SEE PAGE 56



PAGE
62



PAGE
66

Section highlights...

CREATIVE PROJECT

POP ART PORTRAITS

Digital photo artist, **Barry Jackson**, uses basic filters and blends to create a Warhol-esque portrait

PAGE
56

DIGITAL TECHNIQUES

ADDING ATMOSPHERE

Derek Lea alters the feeling of an image by adding wisps of mist with layers and the Alpha channel

PAGE
62

LIGHTING EFFECTS

CREATING RAINBOWS

In part four of our series, **Derek Lea** creates a rainbow in the background of an existing image

PAGE
64

PHOTOSHOP SKILLS

ELIMINATING UNWANTED ELEMENTS

Get rid of unwanted people and objects from your image using the Clone and Selection tools

PAGE
66

YOUR PICTURES

SEND US YOUR IMAGES

Adam Evans and **Tom Ang** give their opinion on reader photos that have been enhanced in Photoshop

PAGE
68

Photoshop

Inspirational projects and expert digital darkroom advice

Tutorials you can trust!



Our aim is to bring you creative ideas, expert tips and quick fixes you can use in your own work.

Authoritative A leading professional in his/her field writes every tutorial. **Value-added** We try to include

image files, and full or trial software so you can try the tutorial for yourself, delivering a complete package.

Clear Our large page size means we can add extra elements, explanations and detail to each tutorial.

Contact our editorial team



If you have a comment, suggestion, idea or submission you would like to make, please email us at editor.dcm@futurenet.co.uk Visit our website at www.dcmag.co.uk



MORE EXPERT PHOTOSHOP TECHNIQUES!

Check out our sister title for even more expert Photoshop, Elements and Paint Shop Pro solutions. In issue 6 (on sale 13th November) we show you how to combine images into panoramas and create a stunning Art Nouveau print using only simple Photoshop techniques.

Create a Warhol-style Pop Art portrait



Digital photo artist, **Barry Jackson**, uses basic Photoshop filters and blend modes to create a simple but stunning Pop Art portrait

PROJECT KEY DETAILS

ON OUR DISC

IMAGE FILES

All the elements you need are on your cover CD/DVD in the 'Pop Art' folder
All images on discs for non-commercial use only

SKILL LEVEL

5

TIME TO COMPLETE

2 HOURS

Over the course of his extraordinary career, Andy Warhol, along with other influential Pop Art pioneers, transformed the face of modern art. Warhol eroded the distinctions between art and popular culture by using mass-production methods, like silkscreen printing. He created stunning portraits of popular film stars, such as Marilyn Monroe and Elizabeth Taylor, and his images are still recognised today as some of the most iconic of the 20th century.

Simple techniques

In this tutorial, we'll be explaining how to use simple but highly effective Photoshop techniques to turn a photograph into a very individual Pop Art portrait. Due to the simplistic style of Warhol's silkscreen images, the

tutorial doesn't require us to start with an image that's been taken by the latest all-singing all-dancing 6-megapixel digital SLR. In fact, the image was shot with a 3.2-megapixel Canon Ixus, set to automatic mode, with red-eye reduction flash used to lighten the face and increase the contrast of the image.

Photoshop's tools

After opening our picture in Photoshop, we're going to create our Pop Art portrait using basic Photoshop filters, blend modes and simple colour adjustments. The files needed to reproduce the image are included on this month's coverdisc, but why not use your own photographs to create fantastic, Pop Art portraits of your friends and family? ■

TOOL SCHOOL

MAGIC WAND TOOL

FIND IT on the Tool bar beneath the Move tool and next to the Lasso tools.

USE IT to select areas of the same brightness.

MASTER IT to adjust the tolerance to increase and decrease the range of the selection.



A THE PORTRAIT

Our simple portrait was taken with a Canon Ixus 3.2-megapixel camera. The shot was taken in auto mode, with red-eye reduction flash selected to give greater contrast to the image.

B PHOTOSHOP FILTERS

Simple Photoshop filters were added to our image and then blended together to give us a hand-drawn, cartoon-like effect – it's a style that's often used by Pop artists.

C SILKSCREEN EFFECT

Bright colours were then roughly painted over the eyes, lips and hair, along with a strong background to give us the silkscreen-effect, as used by the likes of Andy Warhol.

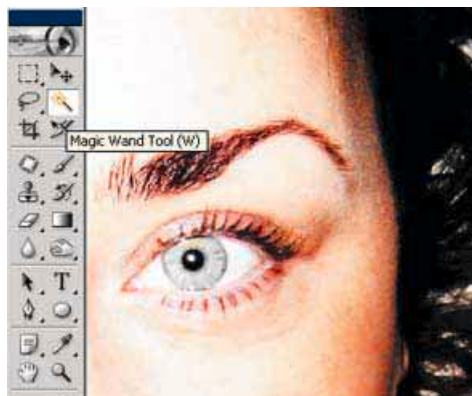


TOP TIP Snapshots are not saved with the image, so remember that closing the image removes them all

STAGE 1

SIMPLIFYING THE IMAGE

First of all we will add a couple of basic Photoshop filters to our image to create a flattened, 2D effect to the picture.



01 REMOVE THE BACKGROUND

Open the portrait image from the coverdisc. Duplicate it and select the Magic Wand tool (W) from the Tool palette. Set tolerance to 40 and click on the white background to make a selection, making sure the background shows through the hair before you hit the delete key to remove the background.



02 TIDY UP

Use the Eraser tool to remove the dark area of background in the top-right of the image, and any small areas that have been missed by the Magic Wand tool. Don't worry about erasing any of the hair adjoining the dark section of background – we'll rectify this in the next stage.



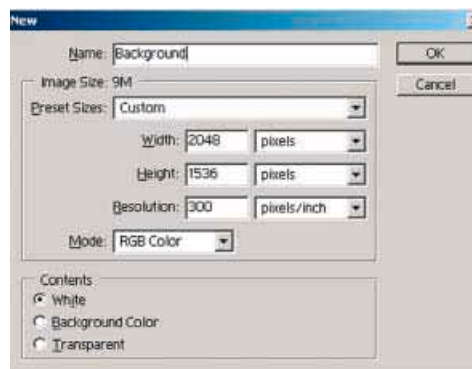
03 COPY AND PASTE

Use the rectangular Marquee tool to select a section of hair on the left-hand side of the head. Right-click the layer via Copy; go to Edit>Transform>Flip Horizontal to flip the selection; then use the Free Transform tool to rotate and position the selection. Layer-Merge down (Ctrl+E) to group it with the background.

EXPLAINED

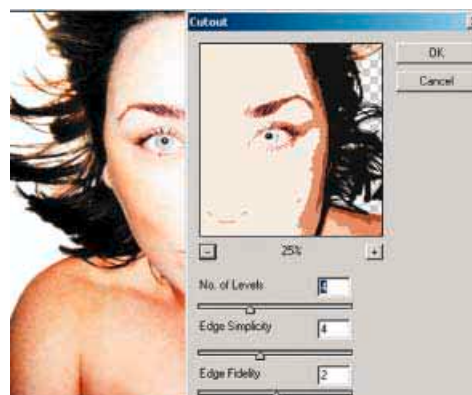
TRANSPARENCY LOCK

The Transparency Lock can be found at the top of Layers palette. It enables you to paint over a layer without affecting the transparent areas of the layer – particularly useful to use on selective areas that have been copied to separate layers.



04 NEW BACKGROUND LAYER

Create a new background layer (Ctrl + N) at 2,048 x 1,536 pixels, with a resolution of 300 pixels per inch and a white background. Use the Move tool to drop the portrait layer onto the new background. Choose Layer Properties and name the layer 'Original'.



05 THE CUTOUT FILTER

Make a copy of the Original layer by dragging it onto the New Layer icon at the bottom of the Layers palette. Rename it 'Cutout'. Select Filter>Artistic>Cutout and, in the dialogue box, enter 4 in No. of Levels; 4 in Edge Simplicity, 4; and 2 in Edge Fidelity.

06 IN FOCUS STAMP FILTER

Create a line drawing

APPLY THE STAMP FILTER

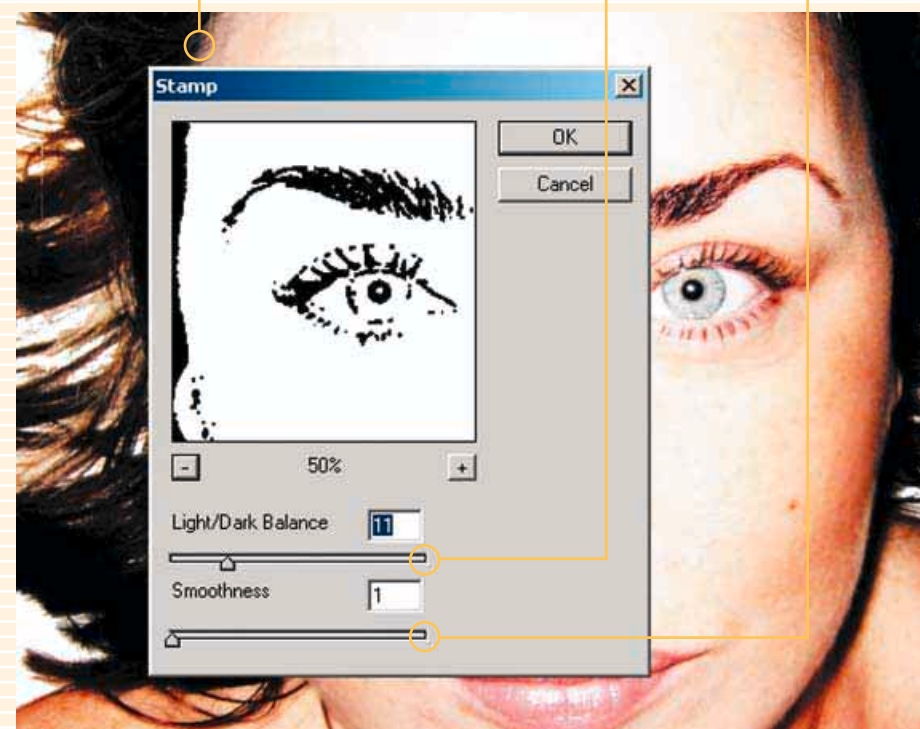
Make another copy of the Original layer, place it above the Cutout layer on the Layers palette and rename it 'Stamp'. Select Filter>Sketch>Stamp and, in the dialogue box, choose Light/dark balance, 11; and Smoothness, 1. Click OK to apply the filter to the layer.

LIGHT/DARK BALANCE

Move this slider to adjust the balance between the light and dark areas of the Stamp-filtered image.

SMOOTHNESS

Move this slider to adjust the outline smoothness of the Stamped image.



EXPERT TIP

BARRY JACKSON'S
PHOTOSHOP TIPS

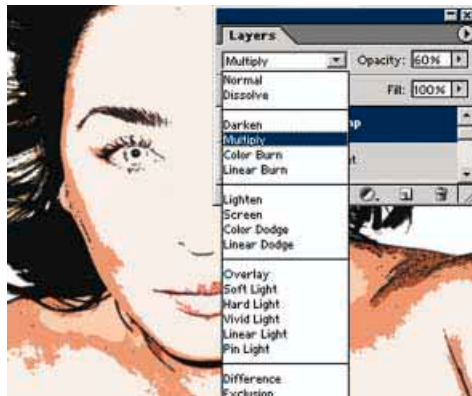
FILLS

Fills can also be applied by clicking on the Edit menu choosing Fill and making the required selection in the pop-up dialogue box.

STAGE 2

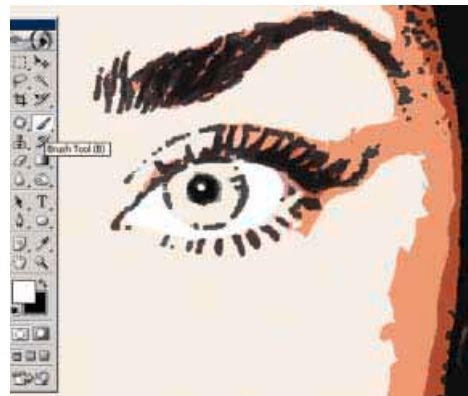
BLEND AND PAINT

We will now blend the layers together and paint over selected areas of our image to give a silkscreen effect.



07 BLEND THE LAYERS

From the drop-down Blending Modes menu at the top of the Layers palette, choose Multiply and set Layer Opacity to 60%. Blending the two layers together in this way will give more definition to the features of our portrait.



08 PAINT THE EYES

With the Cutout layer selected, use a hard-edged paintbrush (B) to roughly paint over the whites of the eyes. Don't worry about being too precise – the silkscreen print effect we're trying to achieve is a very simple image with flat blocks of colour.



09 ADD SOME LIPSTICK

Use the Lasso tool (L) to draw a selection around the lips, right-click and choose Layer via Copy from the drop-down menu. Name the layer 'Lipstick', click on the Lock button at the top of the Layers palette and paint it bright red with opacity set at 40%.

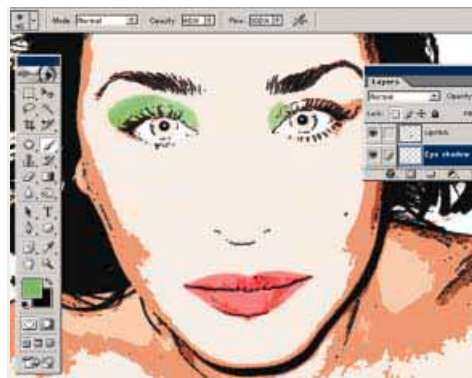
EXPERT TIP



**BARRY JACKSON'S
PHOTOSHOP TIPS**

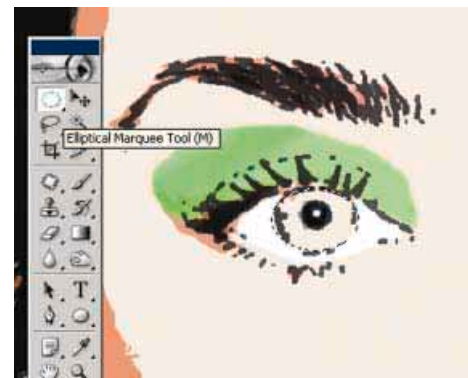
PHOTOSHOP FILTERS

Photoshop contains many standard filters. They can produce some really stunning results when they're blended with other filters.



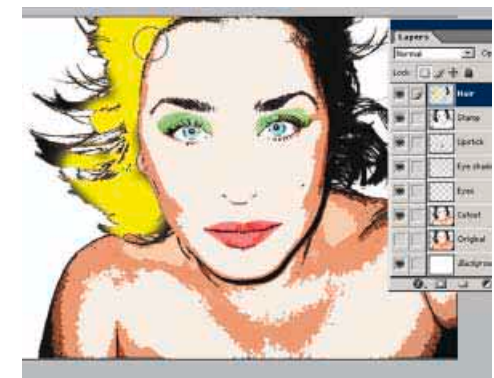
10 EYE SHADOW

Return to the Cutout layer and use the Lasso tool to make rough selections above each eye. Hold down the Shift button to add to the selection. Go to Layer via Copy, rename the layer 'Eye Shadow', then Lock Transparency and Paint. In our example, we've used bright green with opacity set at 40%.



11 THE EYES

Return to the Cutout layer and follow the same procedure as in steps 09 and 10, except this time, use the Elliptical Marquee tool (M) to create the selection. Hold down the Alt key, left-click and drag the mouse from the centre of the eye. Paint it bright blue or green, with opacity set to 40%.



12 THE HAIR COLOUR

Now we're going to turn our model's hair blonde. Return to the Cutout layer and use the Magic Wand tool to select the hair, go to Layer via Copy, rename the layer 'Hair'. Place it above the Stamp layer, go to Lock Transparency and paint it bright yellow, with opacity set to 100%.

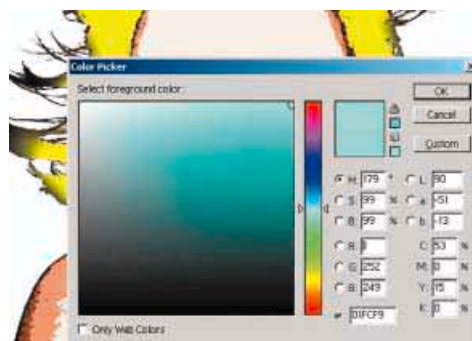
EXPERT TIP



**BARRY JACKSON'S
PHOTOSHOP TIPS**

SELECTION TOOLS

Selections can be made using several Photoshop tools, such as the Magic Wand, Lasso, Pen, Colour Range and Marquee.



13 FILL THE BACKGROUND

Select the Background layer, click on the Foreground Colour box and choose a bright blue from the Colour palette. Select the Paint Bucket tool (G) from the Tool bar (this can be found in the same group as the Gradient tool) and click on the white background in order to fill it with blue.



14 IMAGE RESULTS

We now have our finished Warhol-style silkscreen image. Either leave it at this point or follow the final steps to make the full, composite image. From this point on, there is an infinite number of colour combinations – why not experiment with your own colour preferences?



15 NEW CANVAS

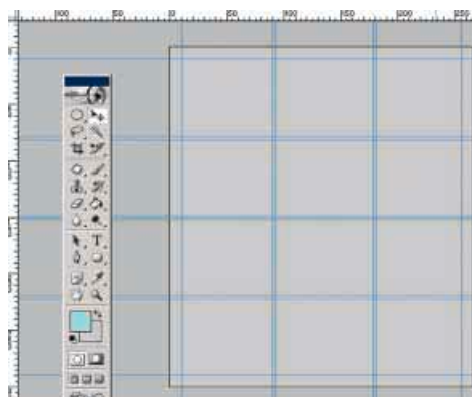
Pick a mid-grey background colour, then create a new canvas that's 266mm wide x 300mm high. This is the specific size of our tutorial, but you can specify your own, final image size, depending on your printer's output.

TOP TIP When using the Magic Wand tool to make a selection, hold down the Shift key while left-clicking the mouse to add to the selection or hold down the Alt key to subtract from the selection

STAGE 3

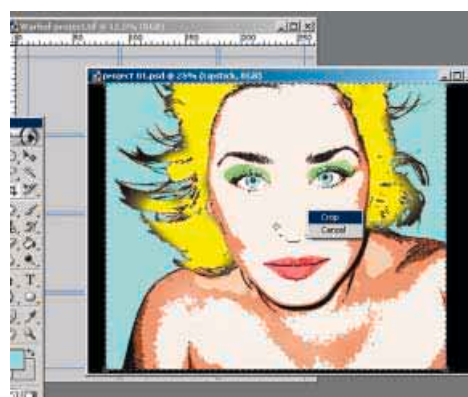
CREATE THE COMPOSITE IMAGE

We will now create a composite image containing 12 different versions of our Warhol-style portrait.



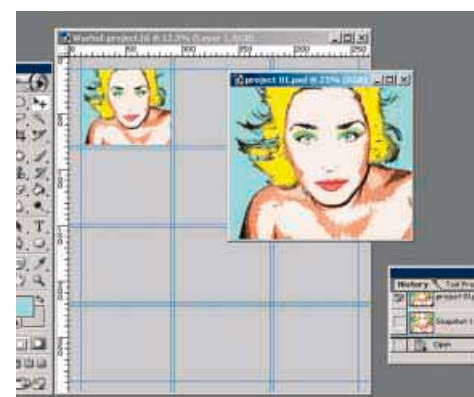
16 RULERS AND GUIDES

In the View menu, turn on the rulers (Ctrl+R) and Snap → Snap to → Guides (Shift+Ctrl+;). Drag the guides from the rulers at the top and left of the screen and position it to make a grid over the canvas. This image is made up of 12, separate versions of our Warhol-style portrait, each is 80mm wide x 67.5mm high.



17 CROP TO FIT

Return to the portrait and select the Crop tool (C), set the size to 80mm wide x 67.5mm high and the resolution to 300 pixels per inch. Hold down the left mouse button while dragging the tool across the image. When you're happy with the selected area, right-click on the selection and click on Crop.



18 FLATTEN THE IMAGE

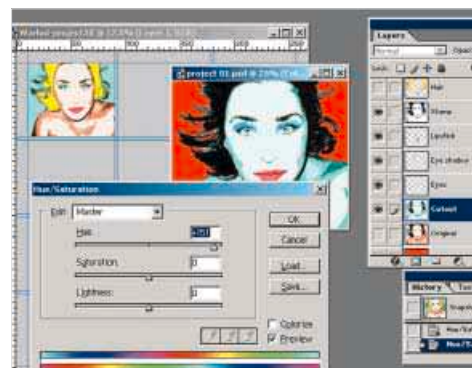
Create a snapshot of the image by clicking on the Camera icon at the bottom of the History palette. Flatten the image using Layers → Flatten image, then save it as 'Portrait 01'. Use the Move tool to drag the image onto a new canvas and, if you position the image in the top-left box, it will automatically snap to the guides.

EXPERT TIP

BARRY JACKSON'S PHOTOSHOP TIPS

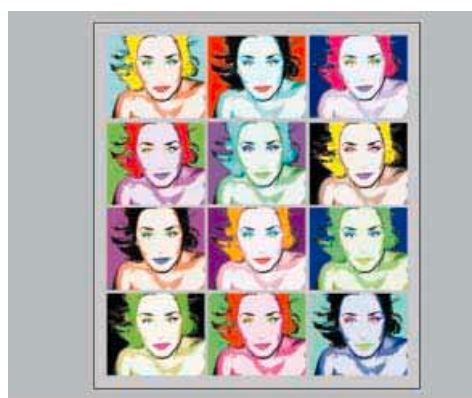
BLEND MODES

Selected in the Layers or Options palette these can be used with any brush-editing tool or layer to affect another layer.



19 CREATE A NEW COLOUR SCHEME

Return to the snapshot of the Original portrait image, and go to Image → Adjustments → Hue/Saturation (Ctrl+U). Move the hue slider to adjust the colours of the component layers in the portrait. When you're happy, flatten and drag it onto the new canvas, as in step 18.



20 COMPLETE THE COMPOSITE IMAGE

Repeat step 19, creating a new, individual colour scheme for each of the 12 boxes. When you're happy with the results, go to Layer → Flatten image and remove the guides (View → Clear guides). We now have our completed Warhol-style Pop Art image.

21 IN FOCUS FESTIVE TOUCH

Create an original Christmas card

SPEECH BUBBLE

Add a simple, cartoon-style speech bubble by using the Elliptical Marquee tool to create the shapes surrounded by a 4-pixel black stroke, and then use the Text tool to write your message.

SANTA HAT

This Christmas Pop Art image was created by placing a picture of a Santa hat on a separate layer on top to the Original portrait image before the filter and colour changes were made.



EXPLAINED

SNAPSHOT FEATURE

The Snapshot feature enables you to make a temporary copy of your image at any stage of the editing process. You can then return to this at any time by clicking on the snapshot image at the top of the History palette.

WACOM®



Watch for the Penabled
logo to ensure you're
getting the natural feel
and superior performance
of Wacom's patented
pen and battery-free
pen technology



Pen made Imaging



Get the best out of your photos and videos! Digital imaging is now simpler, more natural and more precise thanks to the pressure sensitive Graphire pen. Combined with powerful software, this pen tablet lets you easily achieve optimal results and gives your imagination full reign. Discover the world of digital imaging.

www.my-graphire.com

Graphire³





Creating misty effects

By making use of Photoshop's alpha channel and layer functions, Derek Lea demonstrates how to alter the atmosphere of your scenes with eerie mist

ATMOSPHERE

KEY DETAILS



ON OUR DISC

■ IMAGE FILES

All the elements you need are on your cover CD/DVD in the 'Creating misty effects' folder. All images on discs for non-commercial use only



SKILL LEVEL

5



TIME TO COMPLETE

30 MINS

Changing the atmosphere surrounding the subject in an image can alter the feeling that your image conjures up. The atmosphere in our original image of the horse (above, left), evokes a feeling of the weather being warm, bright and pleasant: it's a beautiful day and all is well.

Mist opportunity

Adding an atmospheric effect, like wisps of mist, can change the feeling of the image entirely. The feeling of the second image of our horse (above, right) has changed: it feels like the weather is closing in – the mist is rolling in, things are taking a turn for the worse and the image has a more ominous feeling.

Mist can also change the feeling of altitude in the image. The original shot of our horse was taken on top of a rocky hill, but adding the mist has created a feeling that the hill is much higher, where the horse is above the cloud level and the wisps of mist are blowing past.

Play misty for me

Creating the mist isn't difficult, and like many effects offered in third-party programs, adding it can be done in Photoshop, if you have an adequate understanding of alpha channels and layers. While many users will immediately head for the Brush tool to paint in some soft, misty areas, a much faster, more realistic result can

be achieved by using an existing shot of cloud to define the areas of mist.

On cloud nine

Clouds are areas where mist gathers in the atmosphere, and by converting the cloud image to greyscale and then drastically altering the contrast, it provides an excellent basis for selections when it's imported into an alpha channel. The rest is simple, using multiple layers of filled selections. Moving them around, distorting and blurring them helps to create the overlapping wisps of mist. And the use of layer masks helps to control areas that are stronger than others. ■

MAKING THE MIST

Build up layers of white inside cloud-shaped selections to create the mist within the image



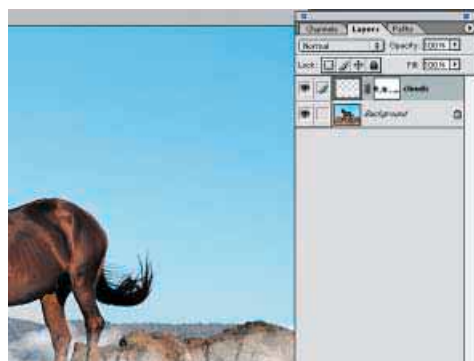
01 CREATE A CHANNEL
Open your picture of clouds, and use the Lasso tool to draw a rough selection around them. Make sure that it encompasses all the white areas. Choose Edit→Copy from the menu and open your horse image. Create a new channel by clicking on Create New Channel in the Channels palette.



02 MAKE A SELECTION
Choose Edit→Paste from the menu and enable the visibility of the composite channel in the Channels palette. Use the Move tool to position the contents and deselect (command-d). Command-click the cloud's Channel icon to generate a selection from it. In the Layers palette, click on Create a New Layer.



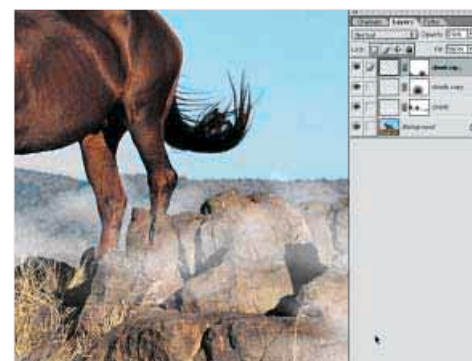
03 FILL THE SELECTION
Fill the current selection on the new layer with a white foreground colour (Option-delete). Use the Move tool to move the layer down and choose Edit→Free Transform from the menu to scale it vertically. Choose Layer→Duplicate Layer from the menu and drag the duplicate layer down and to the right using the Move tool.



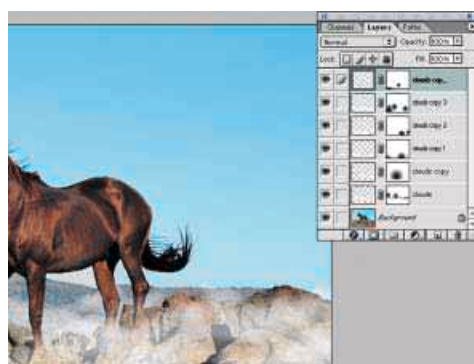
04 MERGE THE LAYERS
Link the cloud layers in the Layers palette and choose Merge Linked from the Layers palette menu. Click on the Add Layer Mask button to add a mask. Select the Brush tool from the toolbox and specify a black foreground colour. Use a large, soft brush tip and a 50% opacity setting to paint out areas of cloud on the mask.



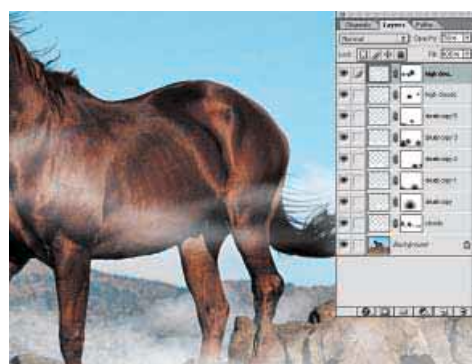
05 DUPLICATE THE LAYER
Reduce the opacity of the layer to 74%. Duplicate the layer and drag it far to the right and lower down using the Move tool (v). Choose Filter→Blur→Gaussian Blur from the menu and specify a radius of 8 pixels to blur the clouds. Select the layer mask and fill it with the white background colour (command-delete).



06 CREATE ANOTHER DUPLICATE
Increase opacity to 82% and use a large, soft brush to paint over the central area of the layer mask with black. Duplicate the layer and use the Free Transform tool to increase the size of the layer contents; and use the Move tool to move it to the left and lower down. Use a large soft brush to mask out unwanted areas.



07 FLIP THE LAYER
Duplicate this layer and choose Edit→Transform→Flip Horizontal. Alter the size and position of this layer. Fill the mask with white and mask the desired areas on this layer mask with a large, soft brush. Reduce the opacity. Use this method to create two more mist layers.



08 ADD HIGHER MIST
Create a selection from the alpha channel and fill it with white. Reduce the opacity and use Free Transform to stretch it horizontally. Move it using the Move tool and add a layer mask. Use the Brush tool to edit the layer mask. Duplicate the layer and move it up.



09 ONE FINAL DUPLICATE
Make a duplicate of the current layer and increase the opacity. Move it up and to the left. Use Gaussian blur to soften the clouds. In the layer mask, use a large, soft brush with a black foreground colour to mask areas that cover too much of the horse's face.

EXPERT TIPS

**DEREK LEA'S
BRUSH ADVICE**

BRUSH TIP SHAPE
When you are using the Brush tool, have a look in the Brushes palette by clicking the toggle button in the Tool Options bar. The first option at the left enables you to adjust your brush tip quickly and effectively. Increase the diameter and reduce the hardness to zero for a large, soft brush. Reduce the spacing to one for a smooth stroke.

EXPERT TIP

**DEREK LEA'S
EXPERT ADVICE**

LOCKING
Get into the habit of locking your layer attributes – it can help you preserve the content of your layers and avoid mistakes. There are three different lock options for transparency, image pixels and position. There is also a lock-all option that lets you lock all of the attributes.

COLOURS
By default, foreground colour is set to black, and background colour is set to white. To change a colour, click on its swatch in the toolbox. The colour picker will open where you can select any colour. To reset the swatches to their defaults, either click on the small default colour swatch icons to the lower left of the regular swatches or type [d].

CONTACT US!
**DEREK
LEA**
derek@dereklea.com



Beautiful rainbows

Never worry about being in the right place at the right time again: we show you how to create a rainbow in an existing image

NEXT MONTH

GRAIN EFFECTS
How to simulate traditional film grain effects

We all know that moment when the clouds begin to clear after the rain, the sun peeks out for a moment and a rainbow appears before us. After the initial excitement fades, frustration sets in, and you mutter to yourself, "I wish I'd brought my camera with me..."

Another rainbow has slipped away, but worry not,

because you can create a rainbow of any shape in any digital image you like – all that you need is Photoshop and a little bit of know-how.

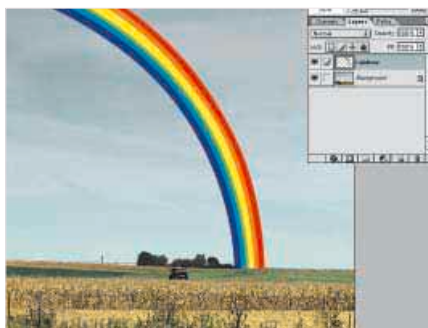
Photoshop magic

By combining the Pen tool with layers, layer sets, the Free Transform tool and Gaussian blur, you can recreate

that magic moment any time. Ideally, a rainbow like this is suited best to an image with a lot of sky, and works very well if the sky suggests rain or overcast conditions. That is assuming that realism is what you're after, however, feel free to take these techniques and create any rainbow effect of your own that you desire, realistic or not... ■

CREATING RAINBOWS

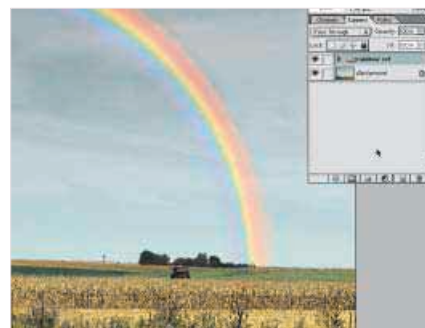
Add a stunning rainbow to any of your landscape scenes in four easy steps



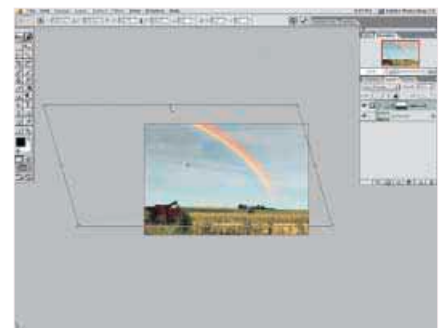
01 ADD THE COLOURS
Use the Pen tool to draw a closed path for the first colour. Generate a selection from the path and fill it with a violet from the picker. Deselect and draw a path for the second colour. Generate a selection from the path and fill it with indigo. Follow this process for each colour.



02 CREATE DUPLICATE LAYERS
Disable the Lock image pixels and choose Image ▸ Blur ▸ Gaussian Blur. Enter a radius of 40, click OK, reduce opacity to 20% and dup the layer. Change layer opacity to 27% and the mode to overlay. Duplicate this layer, change the opacity to 100% and the blending mode to colour.



03 ADJUST THE COLOUR
Command-click the layer icon in the Layers palette, create a new Selective Colour adjustment layer and adjust the levels of the colour components of the rainbow so that it looks more natural. Create a layer set and add all of the rainbow layers to it.



04 MASK AND TRANSFORM
Add a layer mask to the set and use the Gradient tool with a black foreground colour, and a set the foreground to transparent, in order to soften where the rainbow meets the horizon. Select the layer set and choose Edit ▸ Free Transform from the menu to skew the rainbow.

PENTAX

Optio 550 5mp 5x optical zoom



Manufacturer#: 1817200
QuickFind: 52850

£349.99 inc VAT

OLYMPUS

C-4000 Zoom 4MP



Manufacturer#: 138575
QuickFind: 54597

£232.64 inc VAT

Kodak

CX6200 2MP



Manufacturer#: CX6200
QuickFind: 54493

£83.12 inc VAT

JB1

THE WORLD'S FIRST OFFICIAL
007 DIGITAL CAMERA



James Bond
Zippo Style
Pocket Camera

- Web Cam
- Video
- Disc Drive



Manufacturer#: JB1-007
QuickFind: 52163

£61.69 inc VAT

Digital Cameras

QuickFind	Description	inc VAT			
52851	Pentax Optio 555 5mp 5x optical zoom Digital Camera	£409.00	52844	Olympus MUJ400 Digital Camera 4.0 Mp 3x Zoom	£275.64
52857	Pentax Optio 450 4mp 5x optical zoom Digital Camera	£330.00	51451	Umax Astrapix 550 Cmos 2.1Mp [interpolated to 3.1Mp] With Built In Mpeg Player	£10.50
52853	Pentax Optio 54 4mp 3x optical zoom Digital Camera	£295.00	36149	Mustek Gsmart Mini 2.21 Mega Pixel Digital Camera	£36.61
54494	Kodak L5633 3mp 3x zoom Digital Camera	£261.67	52548	Genius G-shot D231 2.1mp 4x Zoom Digital Camera	£63.11
51551	Kodak CX6230 Digital Camera 2mp 3x zoom	£121.82	52549	Genius G-shot P313 3.3mp 4x Zoom Digital Camera	£92.83
51552	Kodak DX6340 Digital Camera 3.1mp 4x zoom	£204.99	51572	Benq DC2410 digital Camera 3.1mpixel Ccd 1.6 TFT	£114.54
52949	Fuji A205S 2mp CCD 3x Zoom Digital Camera	£140.01	52497	Digital Dream L'espion Mini Digital Camera/video/web cam	£17.61
52970	Fuji S6000 3.1MP 10X Optical Zoom Digital Camera	£226.14	52164	Digital Dream Quantum 3.2 4 Function 6.6mp [Interpolated]	£117.49
51693	Fuji A210 Digital Camera 3.2mp 3x zoom XD Card	£174.71	52457	Canon Powershot A60 2MP CCD 3x Zoom Digital Camera	£185.01
52644	Olympus MUJ 300 3.2mp Digital Camera	£232.86	51701	Nikon 2100 3x zoom 2mp Digital Camera	£188.63

Memory



Compact Flash		
44209	Viking 64mb	£12.91
44279	Viking 128mb	£19.97
26255	PQI 256mb	£38.77
51215	PQI 512mb 40x Ultra Hi Speed	£88.12
Memory Stick		
50876	Lexar 64mb memory stick	£36.47
48441	Lexar 128mb memory stick	£35.24
47341	Sony 256mb memory stick pro	£72.84
47342	Sony 512mb memory stick pro	£182.11
Multi Media Cards (MMC)		
26262	PQI 64mb MMC card	£15.26
54823	Kingmax 128mb MMC card	£26.66
51150	Viking 128mb MMC card	£25.84
54825	Kingmax 256mb MMC card	£48.16
Card Readers and Writers		
48182	Ext. USB 6 in 1 card reader	£8.22
52315	Ext. USB 2.0 7 in 1 card reader	£10.36
54461	Ext. All in 1 card reader	£11.74
48181	Internal 6 in 1 card reader	£9.98
Secure Digital Cards		
44596	Viking 64mb secure d/c	£16.43
49696	Kingmax 128mb secure d/c	£29.36
42770	Viking 128mb secure d/c	£29.36
48435	Sandisk 256mb secure d/c	£52.86
Smart Media		
52934	Viking 64mb smart media	£11.15
50878	Lexar 128mb smart media	£26.67
40401	Kingston 128mb smart media	£25.84
USB Flash Drives		
52634	64mb USB 2.0 flash disk	£19.97
48501	PQI USB 2.0 128mb travel disk	£21.72
46603	PQI USB 256mb travel disk	£48.17
48498	PQI 512mb USB 2.0 travel disk	£99.87
XD Picture Cards		
52088	Olympus 64mb xd picture card	£18.77
52234	Lexar 128mb xd picture card	£35.24
50014	Fuji 256mb xd picture card	£76.37

LEXMARK

Lexmark P707

- Inkjet
- 4800x1200 dpi
- Free Paper inc.



Manufacturer#: 80D1319
QuickFind: 52446

£58.32 inc VAT

Canon

Bubblejet I250

- 4800dpi
- 12ppm
- USB



Manufacturer#: 8550A011AA
QuickFind: 50034

£41.11 inc VAT

hp

Deskjet 3550

- A4
- Photo Quality



Manufacturer#: CB991A#303

£38.18 inc VAT

Printers & Consumables

QuickFind	Description	inc VAT			
48658	Epson Stylus C44UX 2880 DPI A4 4 Colour USB	£46.17	51534	Epson Stylus C84 Photo Edition - Col USB 5760dpi	£101.07
51533	Epson Stylus C64 Inkjet - Col USB 5760dpi	£69.20	49381	Lexmark Z601 Inkjet Printer - 2400x1200 Dpi USB UK	£30.39
39581	Inkrite Stylus Photo C42, C44 Colour	£6.89	50554	Lexmark Z605 Inkjet Printer - 4800x1200 Dpi Usb	£39.53
39582	Inkrite IREB036 Epson C42, C44 Black	£3.88	33874	Inkrite IRS06210 Seriously Dry Gloss 210g 15 Sheets	£3.82
1232	Epson Paper Photo Quality Glossy Paper A4	£6.39	32345	Inkrite replacement Stylus Photo 700 EX Colour	£3.48
32353	Inkrite replacement cartridge for Epson Stylus 440 460 640 660 740 760 860 1160 Colour	£3.18	32368	Inkrite Stylus Colour 1270 1280 1290 photo 900	£4.62
32548	Inkrite IRCC011 BJC 50 70 80 85 3-Pack Colour	£8.44	50660	Xinia Premium Compatible Toner For HP Laserjet 4000 Series C4127x	£50.30
32351	Inkrite replacement for Stylus 1200 Photo Colour	£3.92	50681	Xinia Compatible Toner For Brother HL-1030 Series	£35.80
33879	Inkrite IRS05150 Seriously Dry Satin 150g 20 Sheets	£4.57	33878	Inkrite IRS0P254 Dry Photocard 254g 10 sheets	£3.83
			33879	Inkrite IRS0S150 Dry Satin 150g 20 Sheets	£4.57

For 1000's of brand names you can trust - shop online at www.ebuyer.com

Current prices are available from www.ebuyer.com | Products shown are subject to availability | Images are representative only | Errors & omissions excluded | All prices are subject to change | See online for full terms & conditions | Prices include VAT are correct at time going to press.

ebuyer (UK) Ltd, PO Box 3180, SHEFFIELD, S6 3WY



BEFORE There are lots of distracting objects in this shot, including a coach and driver, signs and a lamppost protruding from the bride's head



AFTER Nothing to suggest that the objects were ever there. We've removed the driver, made up part of the road and, using a combination of the Clone Stamp and selection tools, got rid of the road signs

Clean up your photos

Remove passers-by, posts and distracting objects from your photos in a jiffy, says Rob Carney, using Photoshop's tools

REMOVING OBJECTS KEY DETAILS

ON OUR DISC

■ IMAGE FILES

All the elements you need are on your cover CD/DVD in the 'Eliminating unwanted elements' folder. All images on discs for non-commercial use only

SKILL LEVEL

3

TIME TO COMPLETE

50 MINS

It happens to the best of us: someone walks behind the happy couple at the moment you take a shot at a wedding; an unsightly lamppost or sign ruins a shot; distracting objects spoil your favourite picture, and so on.

Removing unwanted people, posts and other objects from your digital shots can be a time-consuming process, but it's all about choosing the right tools for the right job. You may have to make up what's suppose to be behind an object, which can sometimes be a bit tricky, but there's usually enough reference material in an image to fake the scene.

In Photoshop 7, the Healing and Patch tools were introduced, but these tools are best used for removing blemishes. Often you don't need to preserve the background shadows and highlights when you're

removing unwanted objects, so it's best to use some of Photoshop's other tools.

Secret of success

The secret to quickly removing unwanted objects in Photoshop focuses on the Clone Stamp tool – it simply clones from a chosen area. The Quick Mask can be also be invaluable, because you can directly copy areas and drag them over the thing that you want to remove – this can prove very effective if you make sure that you blend it carefully. There are all manner of other tricks that you can employ to remove unwanted elements, such as using layers, colour and brightness, the Free Transform tool, and the Copy and Paste options.

The walkthrough on the opposite page demonstrates how to improve an amateur wedding shot. With a bit of

cloning and cropping, the distracting objects have been removed from the image, and we can concentrate on the bride and groom. ■

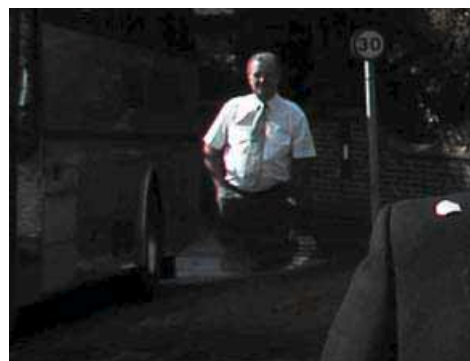
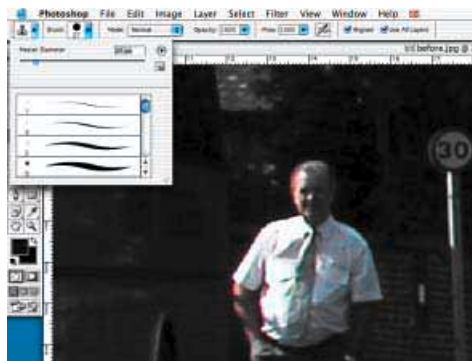
IN DETAIL TOOLSCOOL THE CLONE STAMP

The Clone Stamp tool is perfect for quickly removing unwanted objects. By Alt-clicking on a source and then painting in the normal way, you can easily remove offending objects. You can use the Clone Stamp with Photoshop brushes at varying opacities.



CLEAR THE CLUTTER

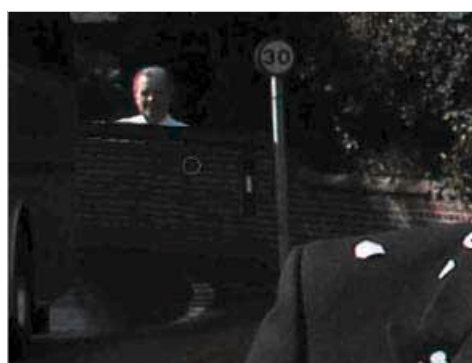
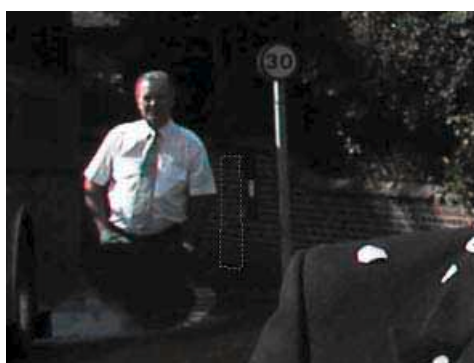
Lots of distracting objects are getting in the way of the main subject of this picture



01 ASSESS THE IMAGE
Begin by assessing the image: what do you want to get rid of and in what order? How are you going to do it? What tools are you going to use? Often a little planning at this stage will save a lot of time in the long run.

02 CLONE IT
The secret to using the Clone Stamp tool is to keep sampling from different places in the image. If you make sweeping movements, you'll end up with backgrounds that look repetitive and fake, so remember to change brushes every so often.

03 THE DRIVER
Let's begin to remove the driver. Take different sample points (Alt+click) from around the grass and road, and begin to clone out his legs. Don't worry about the road markings at this point – we'll put them back in a bit.



04 WALL OF WONDER
To get to the wall, choose the Polygon Selection Lasso from the main toolbox and cut out a section of it, as shown. Copy and paste this as many times as you need, in order to cover the driver's body. It may look a bit slap-dash, but we can sort that in a minute.

05 BLENDING
Go back to the Clone Stamp tool and choose opacity of 50 to 60 in the Tool Options bar. Begin blending the joins between the wall elements that you copied and pasted in step 04. Adjust the opacity and continue to clone until you've the desired effect.

06 HEAD AND POSTS
Remove the rest of the driver and the sign by cloning from the foliage. Enter Quick Mask mode (Q) and select the triangular sign using a hard-edged brush. Move the selection to the right and use the Move tool to move a new piece of foliage over the sign.



07 ROAD MARKINGS
To make the background more realistic, let's add some road markings. Zoom in, select a single line of paint, copy and paste it and use the Free Transform tool. Adjust the brightness by selecting the new layer and go to Image=Adjustments=Brightness and Contrast.

08 OTHER SIGNS
The lamppost coming out of the bride's tiara blends into the train line posts above the wall. Clone the lamp out from the sky using the Clone Stamp tool, doing the same with the main post.

09 FINISHING UP
To finish off the image, clone a light area of foliage into the wedding car mirror, remove the gas sign from the grass, and crop all the elements that we didn't need around the edge of the image. It's that simple!

EXPERT TIP



**ROB CARNEY'S
LAYER TIPS**

USE ALL LAYERS

When using the Clone Stamp tool, if you're working across many layers make sure the Use all Layers box is checked in the Tool Options bar. This not only enables you to clone parts from other layers, but also makes it easy to retrace your steps – cloning from an image onto a new blank layer can make mistakes extremely easy to rectify! You can use the History palette, but when you're taking many sample points and cloning in short bursts this proves impractical.

EXPLAINED



**ROB CARNEY'S
QUICK MASK TIPS**

THE QUICK MASK

By hitting the Q key, all of Photoshop's brushes are available to use as selection tools. This makes it a lot easier to select complex objects, especially if you have a Wacom tablet or similar (see our review this issue). You can also use Photoshop's various erasers and filters on Quick Mask selections, making it a very versatile tool.



CONTACT US!
ROB CARNEY
www.dcmag.co.uk



YOUR PICTURES

THE PANEL



Adam Evans
The illustrious editor of
Digital Camera Magazine



Tom Ang
Prolific author of many
digital camera books

EMAIL YOUR BEST SHOTS TO **EDITOR.DCM@FUTURENET.CO.UK** **PHOTOSHOP**

Kjell Dahle

NAME OF PICTURE Dame5

The model is a full-sized doll for fashion design. I arranged her arms, and used a low angle for taking the picture. In Photoshop I used filters and colour adjustments.



DCMAG.CO.UK
**ACTIVE
THREAD!**
dcmag.co.uk/
kjelldahle



TOM You can do much to an image if its shape is right, but this pose is awkward e.g. fingers over forehead. The effects aren't much help either.



ADAM No way, Tom! I love this image – from the pose to the heavy use of filters. It's subjective but there's something about it that just works.



Have your say!

Email your comments to editor.dcm@futurenet.co.uk or join us on the forums at www.dcmag.co.uk/kjelldahle

John McDougall

NAME OF PICTURE Kid Kong 2

This is my attempt at the Kid Kong tutorial - it was an imaginative concept and great fun to do!



TOM An eerily calm horror moment! The key is in the lighting: you were nearly there, but try making the child-monster much darker as befits a night-shot.



ADAM A near perfect rendition of our Toddler Terror project! The edges of the legs, however, need to be blurred to fit seamlessly into the background.

Paul Brackel

NAME OF PICTURE House and pond

I have produced my first master piece in Photoshop by replacing almost all lawn in my backyard with a pond and some birds in it!



TOM One little refinement will help complete this quiet idyll: show the pink walls of the house and plants to the right reflected in the water.



ADAM A fun project, but the edges of the fake lake (try saying that ten times quickly!) need more work in order to look natural.

Your verdict!

What did you think of last month's lead image? Here, we select the best of your opinions...



Tom said Great light and location, but sadly your timing was out by mere seconds – unless there's a good reason for cutting their heads with the horizon?



Adam said Wonderful colours and very evocative but it would benefit from a lower shooting position, as Tom says. Nevertheless, a striking shot.

YOUR COMMENTS



Mark Mathers The horizon cutting through their heads doesn't bother me at all. I think it's an excellent shot with great silhouettes – I only wish my sunsets were as good.



Jez Fleming I think this is good but not great. The red's a bit overdone to be honest and the focal point doesn't really grab your attention the way it could.



DCMAG.CO.UK
**ACTIVE
THREAD!**
dcmag.co.uk/
kenmarshall

PowerShot A80

UNCOVER ITS
POTENTIAL AND
DISCOVER YOURS.



**4 MEGA
PIXELS**

Results come quickly with the PowerShot A80. Its superb range of features include 4.0 Megapixel resolution to capture the smallest details and 3x optical zoom lens for a sharp shot. For achieving greater creative control, the A80 offers 12 shooting modes, including 2 custom settings and optional accessory lenses. To shoot images that require tricky positioning, use the vari-angle LCD. Print directly from the A80 using Canon Direct Print or with the new PictBridge technology and you'll see how your skills develop instantly! Once you explore everything the PowerShot A80 can do, you will soon discover talents you never knew you had. For more information visit www.canon.co.uk

you can
Canon



OFFICIAL PARTNER

Find your perfect partner

With a wide range of choice in the digital camera market, finding a camera specific to your needs may seem like looking for the proverbial needle in a haystack. But we're here to help. To ensure you're better equipped to make an informed decision, read on...

What's your type?

Digital cameras are fun, easy to use and versatile and offer a host of benefits over film cameras – even if you don't go near a PC. You can instantly review your shots, reshoot them or email your pictures to friends. And now you can get photos at a quality and price that rival your film camera, from virtually any photographic store on the High Street.

That's the simple part. But how do you choose the camera that's best for you? Well, first you need to decide on the type of camera you need. The diagram below should help you do this.

Another way to narrow things down is to decide what type of photographer you are. If you're the classic point and shooter that wants a good all rounder for

holidays and weddings, take a look at the P32, P52, P72 or P92. Or if you want something more compact with a metal body and plenty of style, the P8, P10 or special edition P12 may be your perfect partner.

Are you the clubber, pubber or outdoor type, looking for a camera that fits in the pocket of your jeans and lets you capture all those unexpected moments? If so, the Cyber-shot U range has what you need.

Or maybe you're a little more experienced and enthusiastic about the art of photography; perhaps you already own a film SLR and want something that offers similar levels of manual control and end result. If so, then the compact V1 or the F717 with its rotating lens meet the most demanding needs.



Do you need full control over shutter speeds and apertures and the ability to make large prints?

YES

Take Control

The Cyber-shot enthusiast range offers premium image quality and full photographic control.

These award-winning cameras include the Cyber-shot V1, a compact

5 megapixel powerhouse with a 4x Carl Zeiss lens, the unique Mavica CD-500, which records pictures directly onto CD, or finally, for the ultimate in quality and control check out the Cyber-shot F717.



NO

Are compactness and a metal body key factors for you?

NO

Quality Fun

You need a camera that combines great quality with ease of use in an affordable package. The Cyber-shot 'P' range offers great results and ease of use for all budgets.

These cameras offer a choice of options, from the compact 3 megapixel P32, adding 2x zoom with the P52 or 3x zoom with the P72, or step up to an impressive 5 megapixels with the P92.



YES

Is ease of use and pocketability more important than zoom or large prints?

NO

Style & Substance

For those who demand the best of both worlds. You need a camera that is both compact and stylish and capable of top class results. Check out the Cyber-shot ultra compact 'P' range. Marvels of engineering and design,

these cameras include the 3 megapixel P8 and the 5 megapixel P10. And, for just a few extra pounds, the special edition dark blue P12 comes with a spare battery and exclusive leather case. All models have a 3x optical zoom lens.



YES

Cyber-shot U

Take a look at the Cyber-shot U range: The ultimate marriage of ease of use, sophisticated features, and photo quality prints, all in a body small enough to take anywhere.

The Cyber-shot U range includes the 2 megapixel ultra compact U30, available in four different colours, the U50 with a rotating lens so you can shoot from any angle, and the unique U60 – the perfect pocketable waterproof camera.



Cyber-shot

What's next?

Once you've decided on the type of camera you're looking for, how do you take things further? The next things to consider are effective resolution and optical zoom. Effective optical what?! Let us explain...

A camera's resolution is measured by the number of pixels (short for PICTURE ELEMENTS) that are derived from the light sensors on the camera's imaging chip (called a CCD). Each pixel is essentially a dot of light, millions of which (megapixels) make up a whole picture.

As a general rule, the more megapixels a camera has, the better the image quality or, to look at it another way, the larger you can print your photos. However, not all pixels are the same: only effective pixels give a true comparison of image quality: these are the actual pixels on the camera's CCD that are used in the final image.

Some digital cameras state much higher 'output' or 'recorded' pixels, which are created using software in the camera to artificially boost the megapixel figure claimed, and do not actually offer the image quality

gains they may appear to suggest.

The resolution is only a small part of what ultimately determines the image quality a camera is capable of: for more on this, read the 'Image Quality' section below.

Optical zoom

When framing a shot, it's often helpful to zoom in on your subject. An optical zoom lets you do this without losing quality, by physically moving the lenses inside the camera. It is important to distinguish between this and digital zoom, which crops the shot, thereby discarding pixels so that image resolution is compromised. Optical zooms are available on Cyber-shot cameras from 2x to an impressive 5x. Cyber-shots also offer Smart Zoom, which is an enhanced digital zoom that does not diminish quality.



The Sony difference

Now you have a good idea of what you're looking for, why would you choose a Sony Cyber-shot to spend your hard earned cash on? Well, once you've chosen the number of pixels and zoom you need, there are several other factors that will make a big difference to your long-term enjoyment of digital photography. Here are just a few ways in which a Cyber-shot can help

IMAGE QUALITY

In addition to the camera's resolution, image quality is derived from a range of factors including lens quality, accuracy of focus and exposure, CCD quality, and the in-camera processor that turns the output from the CCD into a digital image file. Every Cyber-shot meets these challenges head-on:

■ Sony Super HAD CCDs gather more light onto each pixel, for brighter, crisper shots. All Cyber-shot models incorporate Super HAD CCD technology.



■ Sony 14-bit DXP (Digital eXtended Processor) technology is capable of processing more image data from the CCD, which makes a big difference to the final colour, contrast and detail of your photos. All Cyber-shot cameras except Cyber-shot U models incorporate 14-bit DXP.



■ On all enthusiast-level Cyber-shot cameras, Sony has teamed up with world-renowned optical company Carl Zeiss to create lens systems that deliver unparalleled clarity, contrast and colour rendition.

DESIGN & INNOVATION

Quality and innovation are hallmarks of Sony. In the Cyber-shot range this is put into practice not only by uncompromising build quality and ergonomic designs, but also in the intuitive, easy-to-use menu systems and controls. Then there are unique technologies to consider, such as the pin-point accuracy of Hologram AF, or the low-light shooting capabilities of NightFraming.

MORE FOR YOUR MONEY

Every Cyber-shot includes a host of features that make your digital photography more enjoyable. Examples include:



■ STAMINA rechargeable batteries and a charger are included with every Cyber-shot, to give you the best power performance time after time. So you need never miss another shot.



■ MPEG VX gives you high quality, full-TV screen movies with sound. And you can record for as long as you like: your movies are limited only by the capacity of the Memory Stick you use.



■ With Memory Stick, you can share your pictures and movies across a huge range of devices, including printers, palmtop computers, mobile phones, TVs and of course PCs and laptops. Every Cyber-shot offers full compatibility with all Memory Stick formats, including the high capacity, high speed Memory Stick PRO.

WIN! A SONY CYBER-SHOT P10 CAMERA



For a chance to win this fabulous prize, simply answer the question below:

How many effective pixels does the Cyber-shot P10 have?

Your answer _____

Name _____

Address _____

Tel _____

Send your completed form to: Cyber-Shot Competition, T3-DCM, 99 Baker Street, London, W1U 6FP

A cash alternative to the prizes is not available. We reserve the right to substitute prizes of equal or greater value. The editor's decision is final. No correspondence will be entered into. Closing date 31/12/03

ON
SALE NOW!

FROM THE MAKERS OF **3D** world THE INTERNATIONAL MAGAZINE FOR 3D ARTISTS

FOR MORE DETAILS

VISIT US ONLINE • www.3dworldmag.com

COMPLETE 3D COLLECTION 2

A special book-length collection of tips and tutorials
to help you master the world's leading 3D software



EXPERT TUITION IN EVERY ASPECT OF 3D

>> Modelling >> Digital texturing >> Lighting >> Animation >> Effects
>> Character design >> Compositing >> Choosing 3D software

PLUS: DVD-ROM PACKED WITH 3D SOFTWARE

Photoshop, Flash, Dreamweaver, Illustrator, FreeHand, Cinema 4D, After Effects

Creative Collection³

An exclusive collection of Computer Arts' best
tutorials. Get to grips with image manipulation,
illustration, Web and graphic design, typography,
digital video and 3D techniques

OVER 200
PAGES OF
TUTORIALS
PLUS DVD

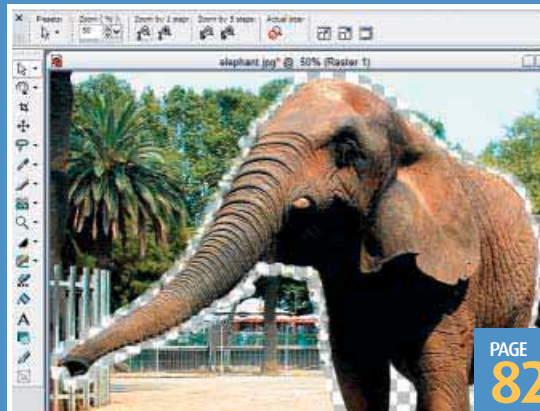
On sale 6 November, £12.99

FROM THE MAKERS OF
**COMPUTER
arts**

VECTOR LAYERS
USE VECTOR LAYERS
TO CREATE THIS
GREETINGS CARD
SEE PAGE 74



PAGE
80



PAGE
82

Section highlights...

IN-DEPTH GUIDE

A-Z OF LAYERS

Vector layers aren't just for those interested in drawing. **Lori Davis** examines how to use them

PAGE
74

PAINT SHOP PRO TOOLS

ERASING A BACKGROUND

Chris Schmidt explains how to isolate an object using Paint Shop Pro's new Background Eraser tool

PAGE
80

PAINT SHOP PRO TOOLS

WARPING IN PAINT SHOP PRO

Add a Dali distortion to your images with the help of the Warp tool and **Chris Schmidt's** know-how

PAGE
82

DIGITAL PHOTOGRAPHY TECHNIQUES

Check out our sister title for even more expert Photoshop, Elements and Paint Shop Pro solutions. In issue 6 (on sale 13th November) we show you how to combine images into panoramas and create a Victorian-style calendar using Paint Shop Pro techniques.



Paint Shop Pro

Get the best from your software with our complete creative guides and expert advice

Tutorials you can trust!



Our aim is to bring you creative ideas, expert tips and quick fixes you can use in your own work.

Authoritative A leading professional in his/her field writes every tutorial. **Value-added** We try to include

image files, and full or trial software so you can try the tutorial for yourself, delivering a complete package.

Clear Our large page size means we can add extra elements, explanations and detail to each tutorial.

Contact our editorial team



If you have a comment, suggestion, idea or submission you would like to make, please email us at editor.dcm@futurenet.co.uk Visit our website at www.dcmag.co.uk

Paint Shop Pro layers

Part 4

You don't have to be interested in drawing to find vectors useful. Lori Davis explains all

VECTOR LAYERS

KEY DETAILS

ON OUR DISC

IMAGE FILES

Paint Shop Pro plug-ins are available on CD/DVD in the 'Paint Shop Pro layers guide' folder. All images on discs for non-commercial use only

SKILL LEVEL

5

TIME TO COMPLETE

45 MINUTES



EXPLAINED

VECTOR OBJECT

A shape or curve defined by instructions for how the object is drawn and what its properties are. Unlike a raster figure, a vector object can be resized or deformed with no degradation in image quality.

This is part four of our guide to Paint Shop Pro layers. Last month, we looked at mask layers, which modify the opacity of another layer or group of layers. This month, we'll recap some of the topics we examined in earlier parts of the guide and take a look at vector layers and their use in photographic images.

Vector layers

Vector layers are quite unlike any layers we've examined so far. A vector layer contains one or more vector objects, which can be lines, shapes, or text characters. A figure on a raster layer is a collection of pixels painted on the layer, but a vector object is really a set of instructions on how the object is drawn and what its properties are. The fact that a vector object is a set of instructions, rather than a fixed collection of pixels, gives it two handy properties: the shape of the object can be precisely controlled, and the object can be resized or deformed with no loss in image quality.

The Preset Shape and Pen tool

You can add a vector object to your image by defining a shape with the Preset Shape tool or by drawing one or more lines with the Pen tool. Each tool can be used either in raster mode or vector mode. For vector mode, choose Create as Vector on the tool's Tool Options palette. If you already have a vector layer as the active layer, the new line or shape is placed on that layer. If the active layer isn't a vector layer, a new vector layer on which the object is placed is added above the active layer.

A vector object is made up of nodes and segments connecting the nodes. The nodes and segments that make up the object are called the object's path. When the object is rendered, any stroke (outline) straddles the path, and any fill fills in the shape defined by the path.

With the Preset Shape tool, you can choose Retain style to draw the shape with its default stroke and fill. Alternatively, you can choose your own stroke and fill on the Materials palette if you first uncheck Retain style.

With the Pen tool, the stroke is what you think of as the line itself, and the fill is placed within the shape defined by the lines or curve that you draw. To draw a line, click the Drawing Mode button on the Pen tool's Tool

Options palette, and choose one of the Segment types: Line Segments, Point to Point, or Freehand.

With Line Segments, click on a start point for your line, then drag to draw a line. If you want a series of connected lines, be sure that Contiguous is selected on the Tool Options palette.

With Point to Point, you can click to define the start point, then click to define the next node in a series of line segments, and so on, until you have all the line segments for the shape. If you want nodes that are connected by a curve rather than a straight line segment, click and drag. You'll see control handles radiating from any node you define in this way. You can change the size of the curve by dragging one end of a control handle either toward the relevant node or away from it. You can also change the shape of the curve by swivelling the handle around the node.

With Freehand, you simply draw a freehand curve. Paint Shop Pro puts in the nodes and segments needed to define the curve you draw.

Although we won't go into the details, you should also know that you can edit a shape or line once you've drawn it. To do so, choose the Pen tool and select Edit Mode. Select a node by clicking it. The node's control handles then appear, enabling you to modify the segments on either side of the node. You can also select multiple nodes by dragging a box



DECONSTRUCTED: VECTOR LAYER

A. LAYER BUTTON: Each vector layer has a button.

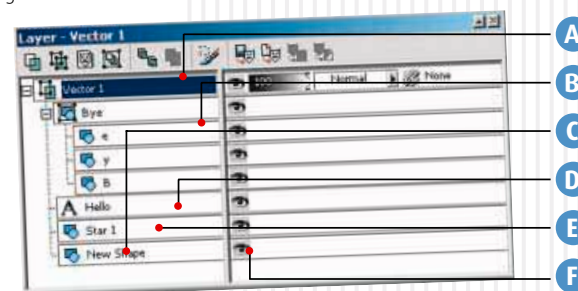
B. OBJECT BUTTONS: Objects on a vector layer each have their own object button below the layer button of the layer on which they reside.

C. NEW SHAPE BUTTON: The object button of an object created with the Pen tool is labelled New Shape.

D. VECTOR TEXT: Vector text is labelled with the text string.

E. NAME OF SHAPE BUTTON: The object button of an object created with the Preset Shape tool is labelled with the name of the shape.

F. CHILD OBJECT BUTTON: The object button of text whose characters have been converted to separate curves has child object buttons for each character.



YOUR EXPERT
LORI J. DAVIS
loriweb@pair.com

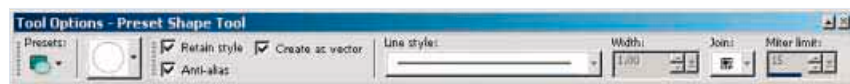


VECTOR TOOLS

It's easy to create vector objects with these versatile tools. Just select the right one for the task, and away you go...

THE PRESET SHAPE TOOL

Draw ready-made shapes with the Preset Shape tool. After defining a vector shape, you can resize or rotate it by dragging the handles on the corners or sides of the box surrounding the shape. You can deform the shape in various ways by holding down

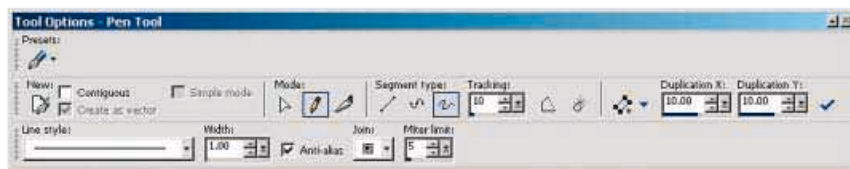


the Shift or Ctrl key (or both) as you drag a handle on the surrounding box. You can also modify a vector shape with the Pen tool or change the

shape's colour and other properties with controls in the Vector Property box, accessed by double-clicking an object's button on the Layer palette.

THE PEN TOOL

With the Pen tool in its Drawing Mode, you can draw your own lines and shapes using one of three Segment types: Line Segment, Point to Point, or Freehand. In Edit Mode, you can manipulate the nodes of a vector object, whether or not it was created with the Pen tool. Select a node by clicking it, then adjust the node's control handles. You can



also select multiple nodes and apply any of several Transformations. The Transformations enable you to

duplicate the nodes, or to expand, contract, or skew the section of the shape between the nodes.

THE TEXT TOOL

Enter vector text with the Text tool. Besides setting the font, size, and other attributes, you can adjust the kerning (the space between characters) or the leading (the space between lines). You can make text conform to the path of another vector object: define the path, then click the path with the Text tool and enter your text. Vector text can be used as it is or converted to



curves. Text can either be converted to a single curve or converted so that each character makes

up a separate curve. Text converted to curves can be edited with the Pen tool.

EXPERT TIPS

LORI J. DAVIS
PSP EXPERT

CHANGING VECTOR PROPERTIES

To modify a vector object's stroke or fill, or to turn anti-aliasing or visibility on and off, double-click the object's object button on the Layer palette to call up the Vector Property dialog box. Make setting changes and then click OK to apply the changes.

USING DIGITAL TRACING PAPER

When using the Pen tool to create a precise path around a figure, lower the Opacity of the vector layer to 0 so you can see the entire raster layer underneath. The fill on the vector layer disappears, but the nodes and segments still show up.

around a set of nodes. Once you've selected the nodes, you can modify them all at once with the Transformations available on the Pen tool's Tool Options palette.

Raster selections from vector objects

For photographers, one of the handiest uses of vector objects is to define a precise path around a figure using the Pen tool. Once you define the path, you can convert it to a raster selection. Be sure that there is no stroke, only fill. Then choose Selections*From Vector Object. You can then hide the vector object using its Visibility toggle on the Layer palette or delete the vector object altogether.

You can also use shapes created with the Preset Shape tool as the basis for a selection. Choose the Preset Shape tool, uncheck Retain style, be sure that there is fill but no stroke, and draw your shape. When the shape is as you want it, choose Selections*From Vector Object to create a selection from your shape.

Adding text

You can also add text in Vector mode. Choose the Text tool, and in the Create as Drop-down list on the Tool Options palette, select Vector. Select any other options that you want for your text, and click in your image. The Text Entry box appears. Enter your text there and then click Apply. Your vector text is added to the current vector layer (or to a new vector layer if the current layer is not a vector layer). There is a box around the text. You can use the control handles of this, in order to resize, reform and rotate your text.

Text on a path

It's very easy in Paint Shop Pro to make text conform to a path. First, define a vector curve or shape with the Pen tool or Preset Shapes tool. Then choose the Text tool. It doesn't matter what you choose for Create as. Position the cursor over the path. When the cursor is in the proper position, a curve appears under the A label of the Text tool's cursor. When the cursor is in the right position, click and then enter your text in the Text Entry box. You'll see that the text conforms to the curve. Click Apply to exit the Text Entry box.

You probably don't want the path itself to be visible. To hide the path, click its Visibility toggle on the Layer palette. You'll then see only the text, which conforms to the invisible path.

Text effects

Paint Shop Pro provides many special effects in the Effects menu that are great for enhancing text. The 3D effects, such as Inner Bevel and Drop Shadow, are especially useful for enhancing text. As we'll see in the tutorial, you can also use Curves, which is normally used to adjust brightness and contrast, to produce glassy or metallic effects.

Keep in mind that you can't apply effects to objects on a vector layer. However, you can convert a vector layer to a raster layer, and then apply whatever effects you want to the new raster layer.

To convert a vector layer to a raster layer, make the vector layer the active layer, and then choose Layers*Convert to Raster Layer. ■

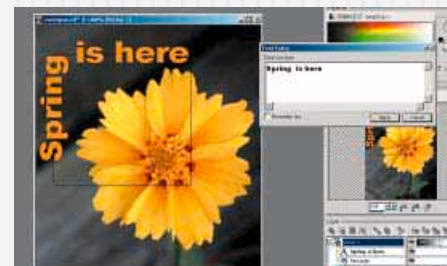
WHAT TO DO WITH VECTORS

Vectors come in handy for photographers, so learn how to make the most of them.



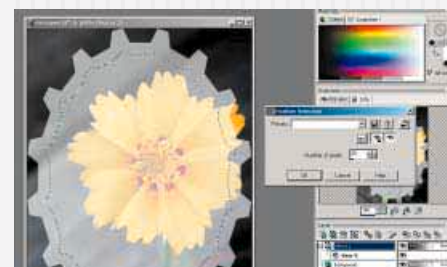
CREATE A PRECISE SELECTION

Use the Pen tool with Segments set to Point to Point to define a path around an object. Be sure that Stroke is set to 0, convert the object to a selection, then delete or hide the vector object.



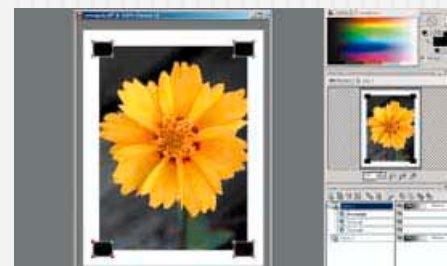
CREATE TEXT ON A PATH

Define the vector shape. Use the Text tool in any of its modes (Selection, Floating, or Vector) to place text on the path. When you're done, hide the path. If you change the shape of the path, the text conforms to the new shape.



ADD A FANCY VIGNETTE

Simulate a novelty vignette with the Pen or Preset Shape tool. After defining the shape of the vignette, convert the vector object to a selection and feather it. You can then blur the photo's edge or modify its brightness or colour.



ADD A DECORATIVE BORDER

Use the Pen Tool or Preset Shape tool to add a decorative border to your photo. You might, for example, use several rectangular objects, with wide strokes and no fill, that are placed one on top of another to simulate matting.

Total Image Editing for the PC

Ulead® PhotoImpact® XL

Everything you need to edit, manage and share digital photos

PhotoImpact XL gives you the most innovative image editing tools for the PC. Edit, manage and share digital photos-plus so much more.

More digital photography tools, more filters and effects, more content and more learning resources.

It's everything you need to produce professional results fast.

FIVE complete programs for ONE low price means MORE value with PhotoImpact XL.

- Ulead PhotoImpact Image Editor
- Ulead Photo Explorer
- Ulead GIF Animator
- Ulead Album

SPECIAL BONUS Ulead COOL 360 Panorama Maker

★ From only £69.99 inc VAT

"Astonishing breadth and versatility; excellent Web design and illustration tools."
"PhotoImpact 8 really is an incredibly powerful application."

COMPUTER SHOPPER

Computer Shopper, 4 Stars, June 2003



FREE Video Tutorial
NEW Step-by-Step
Project Lessons

Acquire

Transfer photos automatically



Organise

Browse and manage your entire photo collection



New ExpressFix™ Wizard



Edit

Easily correct and enhance

Improved
High Dynamic Range

Share

Create exciting TV slideshows

Web pages

Print with easy templates



Optimize photos for e-mail

Available from:



PC World



Staples



Jessops



Amazon



dabs.com/ulead



MicroWarehouse

Call for further info & a free demo CD: 01327 844 880

From the experts in:

Photo · Video · Web · CD/DVD

www.ulead.co.uk

ULEAD

CREATIVE INTELLIGENCE



EXPERT TIP



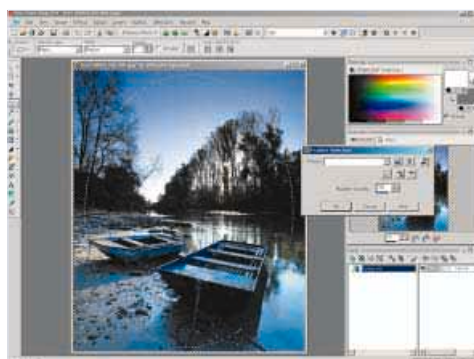
LORI J. DAVIS
PSP EXPERT

TEXT ON TEXT

You can use vector text as a path on which to place other text. For example, you can add vector text, place a series of characters along the path defined by the vector text, then hide the vector text. The characters follow the outline of the invisible vector text.

CREATE A UNIQUE GREETING CARD

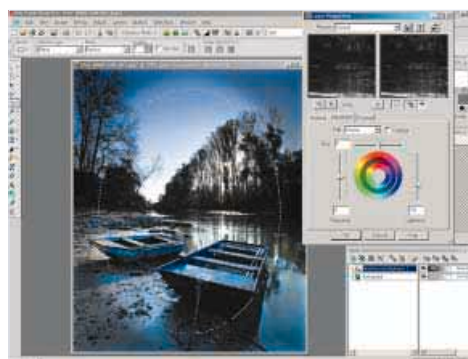
Use vector layers to add a vignette and text on a path, creating a seasonal card with a wintry scene



01

DEFINE THE VIGNETTE AREA

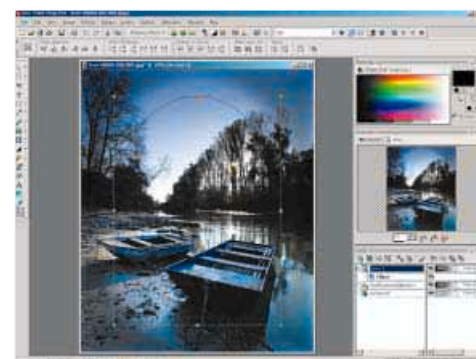
Choose the Selection tool and set it to Ellipse. Define a selection for the vignette by dragging the ellipse from the centre of the image out towards the edge. Invert the selection to select the area outside the ellipse, by choosing Selections ▸ Invert. Feather the selection a bit with Selections ▸ Modify ▸ Feather.



02

DARKEN THE EDGES

Add a new adjustment layer with Layers ▸ New Adjustment Layer ▸ Hue/Saturation/Lightness. Leave the Hue setting at its default setting of 0, but lower the Lightness slider to darken the edge of the photo. If necessary, adjust the saturation with the Saturation slider. Deselect with Ctrl+D.



03

CREATING THE PATH

Select Ellipse from the Preset Shapes tool set, with Retain Style checked, and draw a shape that matches the basic shape of the vignette but that's slightly smaller. If necessary, adjust the size and positioning of the shape. Deselect the newly added vector shape with Ctrl+D.



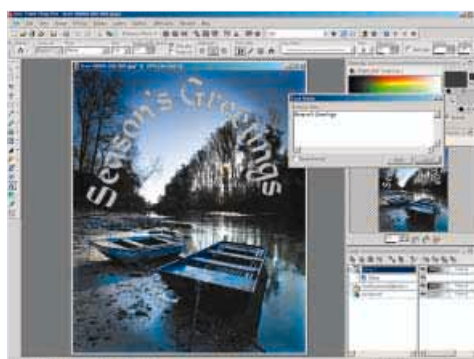
EXPLAINED



LORI J. DAVIS
PSP EXPERT

STROKE AND FILL

For a shape, the stroke is what you normally think of as the shape's outline, and the fill is the colour, pattern, or gradient inside the shape. For a curve, the stroke is what you normally think of as the curve itself, and the fill is a colour, pattern, or gradient that fills in area within the curve.



04

ADDING TEXT ON THE PATH

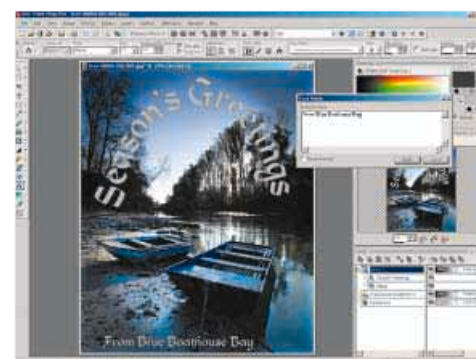
Choose the Text tool, and set it to Vector, Centre Align, and Stroke 1. Choose the font and font size. In the Materials palette, set Stroke to dark grey and Fill to light grey. Click the top centre of the ellipse, then enter the text in the Text Entry box. Click Apply.



05

HIDE THE VECTOR PATH

On the Layer palette, click the Visibility toggle for the vector ellipse. The ellipse will disappear, but the text will still conform to the path. (If you want to adjust the size or shape of the ellipse later, just toggle Visibility back on temporarily and make your change.)



06

ADD THE LOWER TEXT

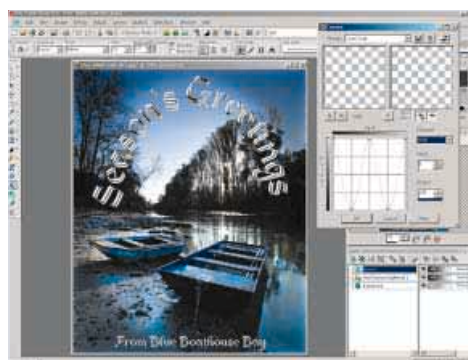
Choose the Text tool, and set it to Vector and Align Left. Click the bottom of the image where you want the text to begin. For now, don't be concerned about whether the text is centred horizontally. Enter the stroked text as before, this time using a smaller font size.



07

ALIGN THE TEXT PERFECTLY ON THE CANVAS

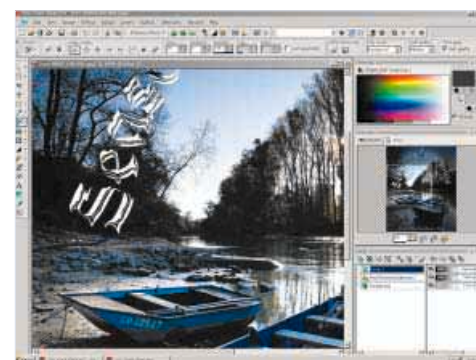
Select the two text objects: click the object button of one and then hold down the Shift key and click the object button of the other. Choose Objects ▸ Align ▸ Horz ▸ Centre in Canvas. The text on the path and the smaller text are centred horizontally in the image.



08

ADD AN ICY EFFECT

Right-click the vector layer's layer button and choose Convert to Raster Layer. With the raster text layer active, apply Inner Bevel. A round bevel shape works well with most fonts. Then choose Adjust ▸ Brightness and Contrast ▸ Curves. Define an M-shaped curve and click OK.



09

MELT THE ICE

Now Choose the Warp Brush, and set it to Push. Drag it into the top of the text and drag bits of the text away at the bottom to simulate ice melting. Finish your greetings card by adding a drop shadow to the text and then set the text layer's Blend mode to Hard Light.

NEXT MONTH

PERFECT SKIES

Transform your outdoor photos by replacing and enhancing skies

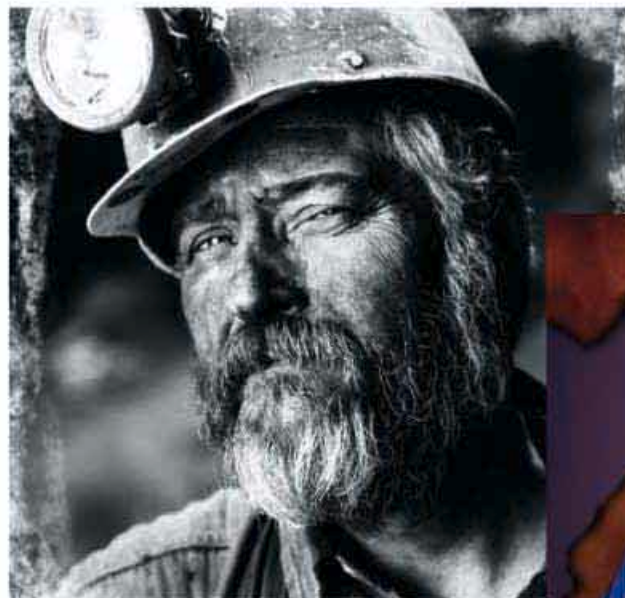


Photo/Graphic Edges Version 6.0

A Suite of 14 Artistic Visual Effects For Photos

Enhance the beauty and elegance of your images with this professional suite of visual effects for photographers.

Photo/Graphic Edges 6.0 includes a robust set of visual tools and effects to empower your creativity and take your work to a whole new level. New brush on effects let you interact with your projects to maintain exacting control over what parts of the image are changed. We invite you to visit our website to learn more: www.autofx.com.



This watercolor styled effect was created by brushing to reveal the image through the brush strokes.



Burned Edge effect brushed on a photo with a textured matte.



New brush on effects like Acid Edge (shown above) and Burned Edge (shown right) give you precise control over the creative process as you brush on the effects where you want them.



The easy to use interface lets even novices achieve stunning results with any image!

Version 6.0 Includes Dozens of New Features and Artistic Visual Effects

The newly released version of Photo/Graphic Edges includes new tools that allow you to brush edges and effects on to your photos. Also included are effect layers, visual presets and lots of fun new effects and controls.

14 New Visual Effects Include:

Acid Brush - Ambient Brush - Burned Edges - Edge Brush - Edges - Frames - Montage - Photo Border - Photo Tabs - Putty Brush - Smudged Edges - Transfer - Vignette



Visit our website for a free demo version of Photo/Graphic Edges 6.0

See for yourself how easy and fun this software can be. Try our free demo version, see hundreds of creative samples and review the complete product details on our website: www.autofx.com



Windows 98/NT/2000/ME/XP - Macintosh OS 9 - OSX native / Includes a stand-alone application version and a Photoshop compatible plug-in version. Includes both the Mac and Windows version in the same package.



Auto FX Software

Visual Imaging Solutions

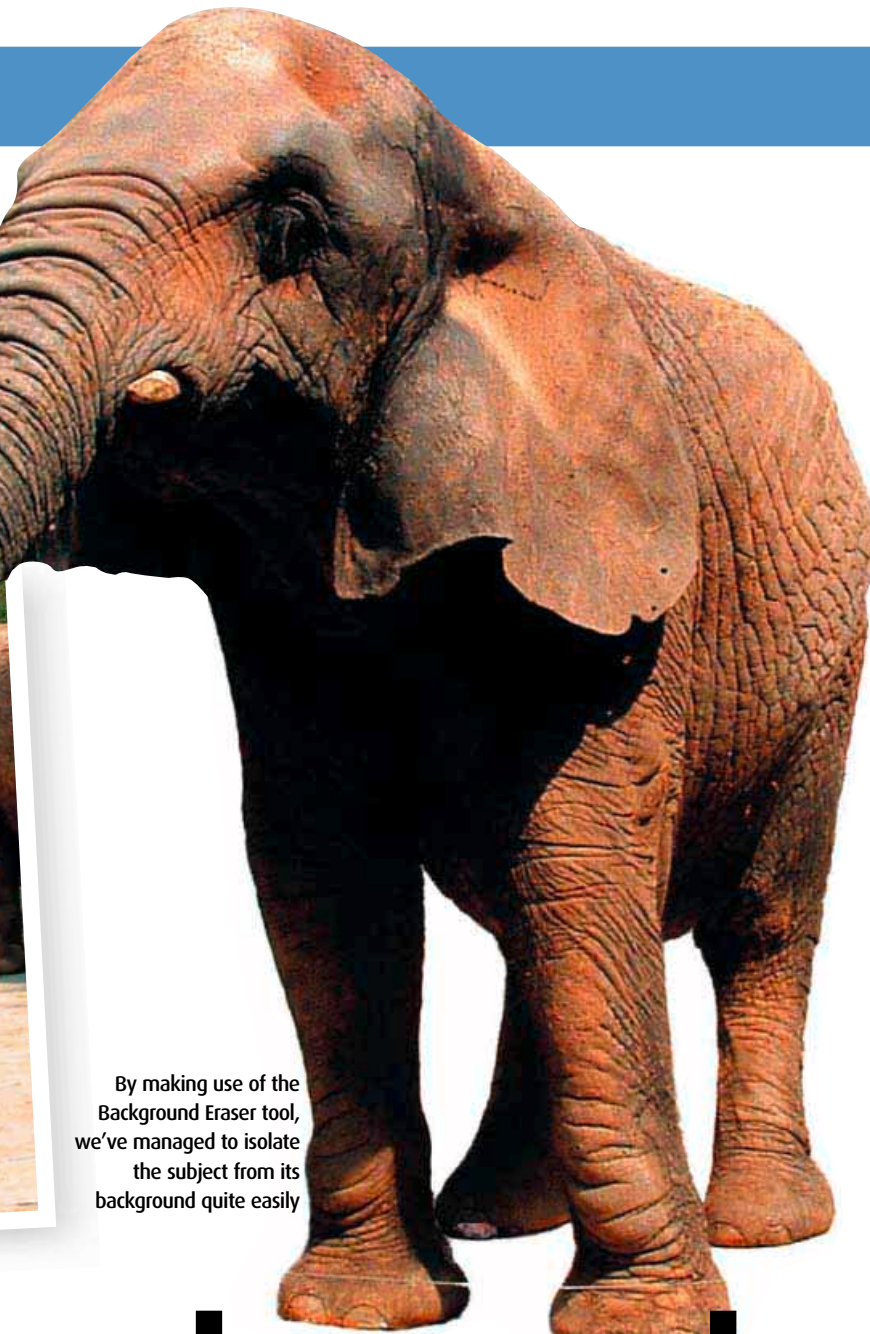
www.autofx.com

205.980.0056 (USA)

The original image is a half-decent shot as far as the subject goes, but the busy background distracts somewhat from the focus of attention



By making use of the Background Eraser tool, we've managed to isolate the subject from its background quite easily



Erasing a background

ERASING A BACKGROUND KEY DETAILS

ON OUR DISC

■ IMAGE FILES

All the elements you need are on your cover CD/DVD in the 'Erasing backgrounds' folder. All images on discs are for non-commercial use only

SKILL LEVEL

4

TIME TO COMPLETE

30 MINUTES



CONTACT US!
CHRIS SCHMIDT
www.dcmag.co.uk

Isolating objects in PSP 8.0 has become an easier task, explains **Chris Schmidt**, thanks to the new Background Eraser tool

Isolating objects from one image to use in another one is a relatively common task that you'll face as you develop your image-editing skills. The technique is useful for creating composite imagery that might be almost impossible to achieve in real life – like a bee approaching a flower. If you have individual images of a bee and a flower, you can simply extract the bee and position it onto the flower image for a shot that looks as though you had endless patience, waiting for the right photo opportunity.

There are various methods to do this in Paint Shop Pro, but these can be either too unreliable, such as using manual selection; or too ambitious for such a relatively simple task, like masking. However, with the Background Eraser tool – new to Paint Shop Pro 8.0 – the process is made much easier, and it can result in some impressive images.

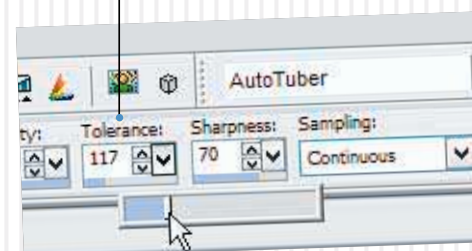
The tool enables some variation in the way it's managed, which is important to understand because each image has its own, unique attributes that need to be considered. With just a little understanding of how this powerful tool can be configured, you'll be able to get the most natural results.

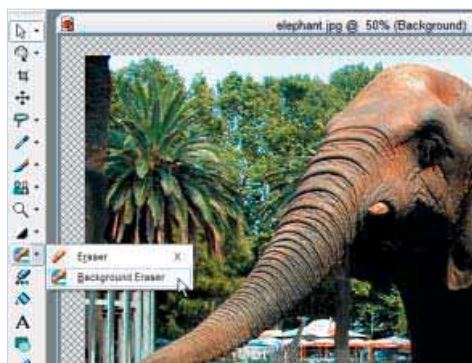
The effectiveness of the tool relies on its configuration and on the composition of the image. If there isn't enough contrast between the foreground and background image, you risk running into the subject, so you may need to decide whether to use alternative methods, such as the more precise controls that are available through masking.

A final word of advice: make use of plenty of short, precise strokes as you apply the effect. This way, if you do make any mistakes you'll be able to undo minimal areas without having to retrace your steps excessively. ■

EXPLAINED TOOLSCHOOL

If you're having trouble controlling the amount being erased, clear the Auto Tolerance check box and use the manual controls. If too much is being erased, then lower the tolerance levels or, alternatively, raise it to increase the amount being removed.

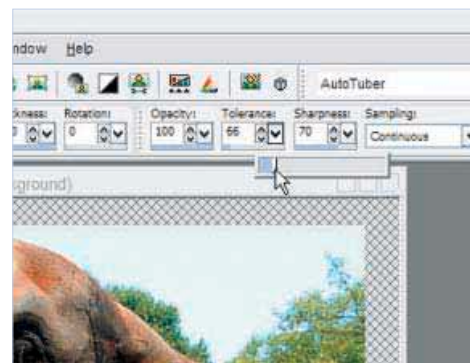




01 MEET THE ELEPHANT
Open the elephant.jpg file from the coverdisc for an image that has an interesting subject but a busy background. Select the Background Eraser tool that is grouped (and may be hidden) under the Default Eraser tool.



02 THE OPTIONS PALETTE
The options for the tip, size, opacity, hardness and so on, are the same options as those for a regular brush. A hard-edged brush – at around 32 pixels in size, with its hardness at 100% – will usually achieve the best results.



03 SET THE TOLERANCE
Checking the Auto Tolerance option will be fine for this image, although if you need more control over complex extractions, then uncheck this and make use of the slider that ranges from 0 to 200. Lower settings will restrict the effect to only the most similar colours.

EXPLAINED

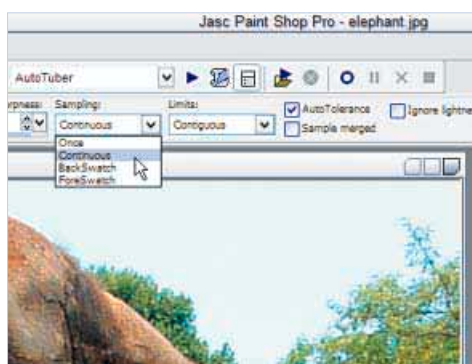
**CHRIS SCHMIDT'S
OPTION ADVICE**

BACKSWATCH AND FORESWATCH OPTIONS

The Backswatch option erases all pixels that match the current background colour specified in the colour palette instead of sampling from the image. The ForeSwatch option matches the foreground palette colour.

DISCONTIGUOUS OPTION

This is an option found under the Limits range and allows similar colours to be erased regardless of whether they are adjoining the sampled region. This can be useful for removing the background from subjects where the background is displayed within the body of the image such as a sieve or net.



04 SIMPLE SAMPLES
The sampling options are an important aspect of the tool to understand. This drop-down enables you to determine the range of pixels to be considered for removal. Continuous is the best choice for our image because the background content changes as Paint Shop Pro adapts the parameters.



05 STRETCH THE LIMITS
This controls whether erased pixels should be adjacent. Set this to Find Edges and paint over the background of the subject around the rear legs, taking care to keep the centre of the brush on the background with the edge overlapping onto the subject.



06 FREE STANDING
Continue drawing around the legs. This should be a quick and easy process because the contrast between the foreground subject and the relatively flat colour background is quite easy for Paint Shop Pro to distinguish.



07 CONTIGUOUS SELECTION
The background to the remainder of the image is a little too busy to use this method so change the Limits option to Contiguous. This is a better choice when the background is close in colour to the foreground subject. Continue around the subject with these settings.



08 KEEP IT CLEAN
The tool can only be as effective as its configuration, and how the background relates to the foreground. Once you've gone round the subject, you may need to zoom into areas using the regular Eraser tool in order to tidy up where close colours occurs.



09 REMOVE THE BACKGROUND
With the subject isolated from its immediate background, we can continue to remove the remaining areas quite easily. Use the Freehand Selection tool to highlight the remaining background and simply delete this to leave the final result.

EXPLAINED

**CHRIS SCHMIDT'S
LAYER TIP**

SAMPLE MERGED

If you're working on a multi-layered image then making use of the Sample Merged option will treat the entire image as a single layer, effectively flattening the image. This can be useful for isolating object within context of a larger image.

Using identifiable imagery for an abstract experiments is often a good idea – the viewer will know what the original image looks like



Warping in Paint Shop Pro

Distort your images for some more creative results, says **Chris Schmidt**, using the Warp tool, new to Paint Shop Pro 8.0

Capturing images as true to life as possible is a goal for many photographers as they attempt to get the most accurate impression of their subject. But if photography is to be considered a true art form, then it's also necessary to attempt to get some more imaginative results.

If you look at painting as an example, many artists strived for the perfect, realistic image, and although there's much to be said for their skills and techniques, it can also be argued that their style had some limitations. It wasn't until developments by artists such as Picasso and Dali, that the medium moved towards a more creative approach.

Creative thinking

Photography is no different, and although we can't claim to make you as celebrated as the great masters, we can help you think a little outside the box of regular photography. And Paint Shop Pro is a great tool to do this with, especially its new Warp tool. In version 8.0, the

With only a few of the Warp modes applied, Big Ben appears to melt in the blistering heat...

tool allows some creative expression to become possible with digital imagery, and it works by treating an image as though it's saturated with wet inks that can be manipulated for some unique and creative results.

Tools of the trade

The Warp tool is found with the Paint Brush and Airbrush tools. The tool inherits attributes from its relations, such as the ability to configure different brush sizes and characteristics that will affect the result. But, within the actual tool itself, there are a number of different modes that are available within its related Options palette, and these will enable you to push, expand, contract and twirl your image out of all recognition.

A key skill in achieving this is to make use of the Iron and Unwarp options that become available once an image has been affected. This way you can revert to a previous stage if things don't quite work out, and tweak effects to restore certain elements for more complex results.

You can use the tool to keep some identity to the original image, while applying distortion, so that things look almost believable. Alternatively, if you want a bit of fun, you can use the tool to really warp things. If you try using it to distort the facial features in a portrait shot, for instance, make sure that the subject has a sense of humour first! ■

WARPING

KEY DETAILS

ON OUR DISC

IMAGE FILES

All the elements you need are on your cover CD/DVD in the 'Warping in Paint Shop Pro' folder.

All images on discs for non-commercial use only

SKILL LEVEL

5

TIME TO COMPLETE

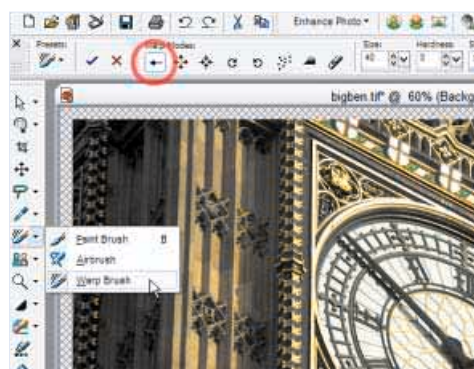
30 MINUTES



CONTACT US!
CHRIS SCHMIDT
www.dcmag.co.uk

WARPING IMAGES

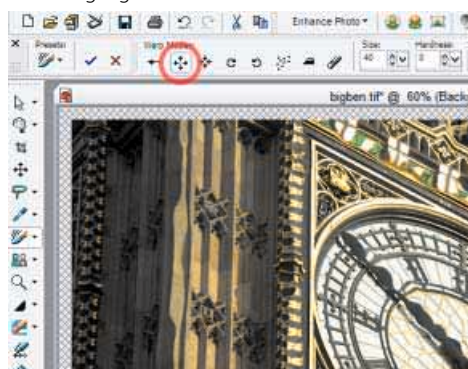
Here we've created a Dali-esque image of the melting Big Ben clock face



01

WHAT A SCORCHER

Select the Warp tool (grouped with the Paint Brush and Airbrush tools) and choose the Push Warp mode available within the Options palette. Set a brush of around 80 pixels and click and drag a few streaks from the bottom of the clock face.



02

ALTER REALITY

Next, choose the Expand mode and draw over some of the straight lines contained within the image such as the clock hands and the corners of the tower. Using a snaking motion as you follow the natural lines will generate a more twisted effect.



03

A LITTLE HOUSEWORK

If the results have become too exaggerated then make use of the Iron Out or Unwarp modes available to rectify certain areas. Continue to experiment with the other modes for twirling the image or adding noise until you're happy with the final results.

COMPETITION!



Canon 300D

Get your entries in now, because first prize is a brand new Canon EOS 300D digital SLR camera and a Canon i450 printer. The first runner-up will receive a Canon A80 digital compact camera.

How to Enter

All you need to do is answer this simple question:

Which football club does dabs.com sponsor?

- Brighton & Hove Albion
- Fulham FC
- Real Madrid

To enter the competition, visit the website

www.dabs.com/digitalcamerashopper

and follow the on screen instructions, or send a postcard to: **Fulham Photography Competition, Digital Camera Shopper, 30 Monmouth Street, Bath, BA1 2BW**. The competition closing date is **7th January 2004**.

Rules:

1. Employees of Future Publishing, dabs.com and Canon are not allowed to enter. Nor are their friends and family.
2. The first correct answer drawn out of the hat after the closing date, which is the 7th January, will be the winner. The second correct answer will be the runner up.
3. By entering the competition you grant the promoters the right to use your name and likeness for the purpose of advertising and promotional purpose.
4. No purchase necessary.

Win a Canon 300D and a day with a sports photographer

Have you ever fancied your chances as a professional sports snapper?

Sports photography is one of the hardest disciplines in the business; superhuman timing, tolerance of bad weather and unsociable hours are all part of the job description. Fortunately, the pictures are worth it, full of the drama and passion of sporting achievement. Some of the most memorable images of the century are from the sporting field; be that race track, pitch or pool. And, of course, as a professional sports photographer, you get to see loads of great events for free.

We've teamed up with dabs.com – the UK's leading online technology retailer and official men's team sponsor of Fulham FC – to offer one lucky reader the chance of a

lifetime. If you've ever wondered what it's like to spend your working life attending Premiership Football matches, here's your chance to find out!

Our winner will spend a day with professional photographer Javier Garcia at Fulham's training ground in South West London. After shooting some of the Premiership's hottest stars you will get the inside track on just how photographs end up on the back pages and a series of top tips for taking the best possible action shots.

You and a friend will then be invited to a Premiership fixture at Loftus Road where you will have the opportunity to take a behind the scenes tour and get a glimpse of how

professional photographers work. We'll then feature your work in a future issue of Digital Camera Shopper.

Naturally you'll need a camera capable of doing the moment justice, which is why you will also be given a brand new 6MP Canon EOS 300D SLR camera, complete with 18-55mm lens kit. You'll also receive a Canon i450 printer, to make sure your pics are printed to the best quality.

One runner-up will receive a 4Mp Canon Powershot A80.

dabs.com

THE UK'S BIGGEST MONTHLY BUYERS' GUIDE



EVERY NEW CAMERA
IS REVIEWED AND
RATED FIRST IN

DIGITAL CAMERA SHOPPER

- The 50 best cameras on sale this Christmas side-by-side
 - First review of the final version of Photoshop CS
 - Profile of the world's best reflector company
- PLUS:** How to turn pictures into posters!

REVIEWED THIS MONTH: Fuji S7000, Pentax 555, Casio Z4, Canon Ixus i, Pentax Optio S4 **PLUS:** Winter Wildlife special

The definitive monthly guide to digital photography kit for all budgets. With over 450 independent reviews over 196 pages, it's the perfect complement to Digital Camera Magazine

Section highlights...

CAMERA CONTROLS

SHOOTING MODES

In the first part of a new series, **Andrea Thompson** explains how to use shooting modes

PAGE
86

TOP TEN

GREAT MOUNTAINS

Climb to new heights with your photography. **George Cairns** is your guide

PAGE
88

HOTLINE

YOUR PROBLEMS SOLVED

This month, **Aidan O'Rourke** gives advice on filters, cleaning up scans and brightening photos

PAGE
90

PHOTO CLINIC

IMPROVE YOUR PICTURES

Our resident expert, **Andrea Thompson**, gives advice to help readers improve their photos

PAGE
96

YOUR PICTURES

GIVE IT YOUR BEST SHOT

Adam Evans and **Tom Ang** give their opinions on your submitted photographs

PAGE
99

HOME STUDIO

SETTING UP A STUDIO ON A BUDGET

In the third part of our series, **Tim Daly** explains how to control still-life lighting

PAGE
100

CREATIVE CONTROLS
SHOOTING MODES
SEE PAGE 86



PAGE
88



PAGE
100

Shoot

Take better photographs...

Tutorials you can trust!



Our aim is to bring you creative ideas, expert tips and quick fixes you can use in your own work.

Authoritative A leading professional in his/her field writes every tutorial. **Value-added** We try to include

image files, and full or trial software so you can try the tutorial for yourself, delivering a complete package.

Clear Our large page size means we can add extra elements, explanations and detail to each tutorial.

DIGITAL CAMERA SHOPPER

Digital Camera Shopper is on sale now for just £3.99 at all good newsagents. With 196 pages of the best photographic advice, a CD packed with full software, filters and everything you need for cityscape shots, it's the best value digital photography mag around. So if you're looking for a second opinion about kit, come to the experts...



Contact our editorial team



If you have a comment, suggestion, idea or submission you would like to make, please email us at editor.dcm@futurenet.co.uk Visit our website at www.dcmag.co.uk

NEW SERIES

APERTURE PRIORITY

With extreme close-ups such as this, depth of field can be as shallow as a few millimetres, so the ability to select a narrow aperture to maximise the zone of sharp focus is vital

Master your digicam Shooting modes

In the first part of a brand-new series, **Andrea Thompson** explains how to use your camera's shooting modes to maximum effect



Great mountains

Clip on your crampons and prepare to scale the heights of creativity with this guide to photographing mountains. Sherpa George Cairns leads the way...



YOUR EXPERT
GEORGE CAIRNS
george@georgecairns.com

NEXT MONTH



**TOP TEN
MUSEUMS**
We cover ancient
buildings and
unusual exhibits

This is the first Top Ten feature that was open to submissions of readers' photographs taken outside the UK. Britain is blessed with some stunning mountain views (from the towering peaks of the Scottish Highlands to the undulating hills of the Lake District), but we decided to open things up a bit to include mountains from abroad – there's such a variety of awesome photo opportunities that international mountains offer.

Romanticism

The Romantic painters of the nineteenth century saw mountains as a worthy subject for their art. The medium may have changed from paint to pixels, but mountains are still a relevant subject today. Mountains are created by all sorts of geological events, from glaciers to volcanic eruptions, and this leads to a huge variety of textures and colours in mountainous areas. From the inviting, verdant hills of Italy to the warm, orange and brown

hues of the Australian outback, colour is a powerful tool that enables the photographer to evoke different atmospheres and emotions.

Holiday snaps

Machu Picchu in Peru is a popular holiday destination for adventurous travellers, and it's almost impossible to visit this location without filling your camera's memory card with stunning vistas of ancient Incan ruins built high among towering, craggy mountain peaks. The juxtaposition of man-made relics and the ancient geological features inspires a sense of awe in the hearts of visitors to the location. The photographer's job is to compose the shot to try to induce similar feelings of awe in the viewer.

Machu Picchu, the ancient fortress city of the Incas is a photographer's dream: five square miles of terraced stonework link by 3,000 steps...



When photographing a mountain, try to include some visual clue to indicate its size, in relation to the scene around it...

Man and nature

Mountains are often used as metaphors of mankind's desire to challenge and conquer adversity. Think of the phrase 'to move mountains' as an example. A good way to photograph mountains is to highlight their relationship with people. Your decision on how to compose a shot will dramatically alter the meaning of the photograph. Depending on where you place the human element in the frame, the mountain will become either the subject of the photo or an impressive backdrop.

People add a sense of scale to a mountain shot. If you take a shot of people in the distance, as little dots of colour dwarfed by the mountainous terrain, you'll emphasise the insignificance of man when compared with the dominance of nature. Alternatively, photographing mountaineers close up, against a snowy mountain backdrop, for instance, will underline the pioneering human spirit as man takes on nature.

Climb every mountain

Another way to approach shooting a mountain is to think about the view from the top. Here you'll get a whole new visual and emotional perspective on the



world around you as the horizon stretches out in the distance. Because you're seeing further than usual, water droplets in the air will create an atmospheric haze. This haze adds layers of depth to your image, as the colour and contrast of distant mountains merge with the sky, while closer objects remain more saturated in colour.

Mountains are notorious for dramatic changes in weather, and this can lead to some exciting, atmospheric shots. However, if you do decide to embark on a mountain expedition, make sure that you take appropriate clothing (and a fully charged mobile phone), a sturdy pair of climbing boots and wrap up in warm, waterproof clothing. ■



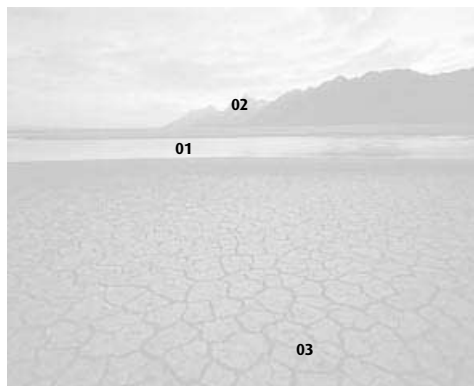
www.photolibary.com



SHAPE AND FORM

Where you find mountains, you'll often find lakes. This adds a whole extra dimension to your creative composition options.

01 Shoot on a calm day to get a still surface on the lake. This gives you a natural mirror to capture a sense of symmetry from your mountain's profile. **02** The haze from water particles in the air causes the mountain to fade into the distance. **03** Compose a flat and distant shot to include some elements in the foreground. This will enhance the image's depth.



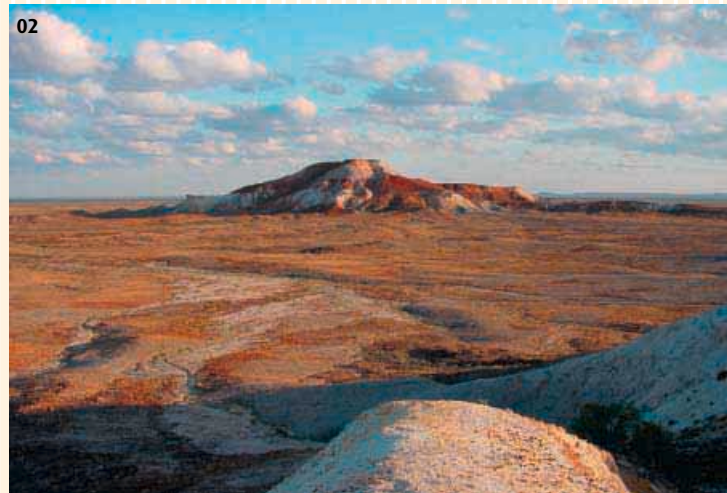
Readers' top 10 shots

Again, we had a great response to our request for this feature. Here's our pick...

ART
EDITOR'S
CHOICE!

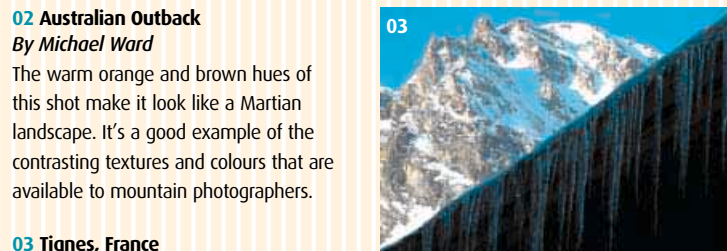
01 Canadian Rockies By Garry Parkin

Atmospheric haze enhances the image's sense of depth. The contrasting colour-saturated fir trees in the foreground create a pleasing frame to the scene.



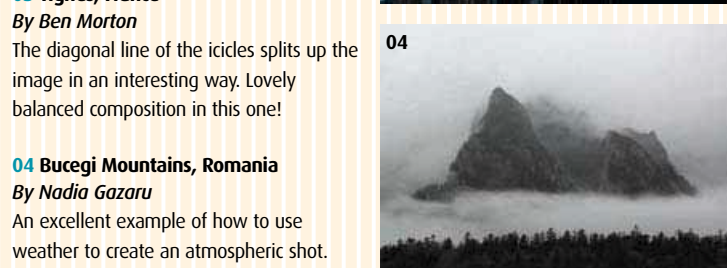
02 Australian Outback By Michael Ward

The warm orange and brown hues of this shot make it look like a Martian landscape. It's a good example of the contrasting textures and colours that are available to mountain photographers.



03 Tignes, France By Ben Morton

The diagonal line of the icicles splits up the image in an interesting way. Lovely balanced composition in this one!



04 Bucegi Mountains, Romania By Nadia Gazaru

An excellent example of how to use weather to create an atmospheric shot.



05 Swiss Alps By Cameron Lees **06** Glen Coe By Doug Scobie **07** Mount Snowdon By Jason Canning **08** Mount Kilimanjaro By Scott Mawson **09** Canadian Rockies By Yvonne Baker **10** Lake District By Cliff Gibson

HotLine

EMAILS
LETTERS
FORUMS

Welcome to the UK's complete help service. We'll tackle any problem – our unique HotLine Network means no problem is too hard. Email us today at hotline.dcm@futurenet.co.uk

LOOK FOR THE NETWORK LOGO



HOTLINE NETWORK MEMBER

Our unique HotLine Network draws on the resources of over 16,000 dcmag.co.uk website members, our writers, contributors, plus industry experts. The result is the greatest problem-solving resource in any UK magazine.

HOTLINE NETWORK EXPERTS

Wherever you see the logo – in the magazine or on the web – the person next to it is a member of our HotLine Network. This means that they know what they're talking about and Digital Camera Magazine is pleased to recommend their technical expertise.

YOUR EXPERTS



AIDAN O'ROURKE
HotLine Network Editor

Aidan is a photographer who works for the Manchester Evening News www.dcmag.co.uk/aidanorourke



BARRY JACKSON
HotLine Network Expert

Barry is a published photographer and Photoshop artist www.dcmag.co.uk/barryjackson



NICK MERRITT
HotLine Network Expert

Nick is an editor, writer and Photoshop expert www.dcmag.co.uk/nickmerritt

ALL SKILL LEVELS WELCOME!



BEGINNER MEDIUM ADVANCED

CONTACT US

We're here to help! Contact HotLine in one of the following ways:
By email help.dcm@futurenet.co.uk
By website www.dcmag.co.uk
By letter HotLine, Digital Camera Magazine, Future Publishing Ltd, 30 Monmouth St, Bath, BA1 2BW, UK

DIGITAL STORAGE

THE BEST FORMAT FOR SAVING IMAGES



I followed a Photoshop Elements video workshop on removing red eye from an image. The original file downloaded from the camera was 1.07MB, but the new PSD file with no red eye is 27.8MB! Am I doing something wrong?

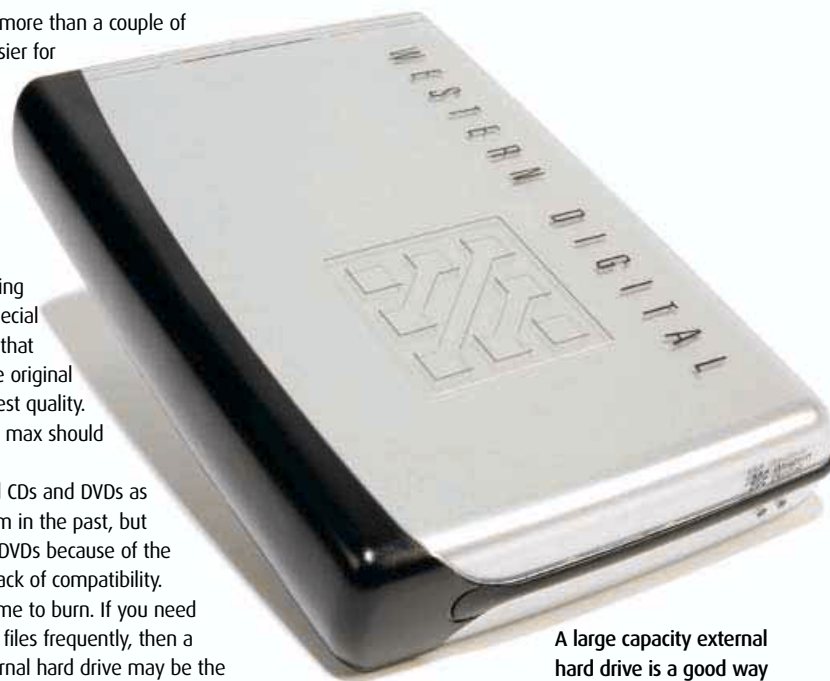
I've bought a 1GB CompactFlash, to complement the 256MB xD card that was supplied with my camera, and this is supposed to give me about 80 shots in TIFF and 160 in RAW format. Which format should I use? I intend to store my images on CD-R or DVD-R/DVD+R, and to use album software to manage them.

■ **Steve Ellis**

The file will take up no more than a couple of megabytes, which is easier for storage and transfer via email.

If the camera is set to output these files, then by all means save them back to TIFF or RAW format if you've not finished editing them, or if it's a very special or valuable photograph that you'd like to store in the original format at the very highest quality. For most purposes, JPEG max should be fine.

I have recommended CDs and DVDs as the best storage medium in the past, but there's a problem with DVDs because of the variety of formats and lack of compatibility. They also take a long time to burn. If you need to save and access your files frequently, then a very large capacity external hard drive may be the best solution.



A large capacity external hard drive is a good way to store your photos

Regulating light

DIGITAL FILTERS

Neutral density filters



I've bought a ND x4 filter for my Nikon D100 camera. Should I just put the filter on the lens and leave it to auto-program; make a note of the settings the camera chooses (without the filter), add the filter and swap to manual; or leave the settings to the camera and increase +1EV? Please help me!

■ **James Macdonald**



A neutral density filter reduces the overall brightness levels entering the camera. Rather like a pair of sunglasses, it reduces glare, but once your eyes have adjusted to the lower intensity of light, the scene should appear the same as if the sun wasn't so bright.

Most digital cameras are able to regulate the

amount of light entering the camera, so why use a neutral density filter? Perhaps the sunlight or flash conditions are so bright that they're more than the camera can handle, even at the smallest aperture setting.

You might want to use a wider aperture to focus attention on the subject and throw the background out of focus, or a longer shutter speed to create motion blur. So, bearing this in mind, should you make adjustments to the camera when using the filter? No, because you would partially or fully cancel out the effect of the filter. All it is doing is reducing the amount of light entering the camera.



Leave the filter to do its job and the camera will do the rest...

DCMAG.CO.UK
**ACTIVE
THREAD!**
dcmag.co.uk/filters



JONATHAN RYAN

When you're on the forums look out for Hotline expert, Jonathan Ryan. He's full of useful tips and tricks – and is often on hand to solve even the most demanding problems

SHARING PHOTOS

PHOTO LIBRARY SOFTWARE

I'm in the process of setting up a photo library, and I would love some recommendations on what software to use. I need something that will give me enough space to add a fair bit of description about the images (place, subject and so on), because the photo library will be used by other people, as well as myself. I would really appreciate any feedback on different software and systems that I can use.

Sally Jelbert



If you're thinking of a shared system, then I think it's worth considering an online solution. Even if it's only to be accessed by a small number of people for the moment, it's nice to

be able to view it from any computer at home or anywhere in the world.

For a long time I've wrestled with the problem of presenting my photos plus accompanying text online. I found there was no solution available that met my requirements. In the end, I decided to design my own, working with a database programmer. Combining my aims and objectives with his programming abilities, we came up with a system that enables me to store and present photographs and accompanying text. The material is arranged in categories and sub-categories.

Clicking on any category or sub-category will produce a set of results pages with medium-sized picture on the left, and text on the right. A larger size picture appears in a pop-up window. There's a data sheet with keyword and other info. There are also



To view Aidan's website in action go to www.aidan.co.uk

extensive search capabilities so you can view results pages on your chosen subject.

TECH FOCUS

WHERE CAN I FIND OUT MORE ABOUT... DEPTH OF FIELD

There's expert advice on this hot topic overleaf, and you'll find a highly technical and very thorough explanation of the principles of depth of field on the website of US-resident Polish physicist and software developer Andrzej Wrotniak. Incidentally, his photo gallery contains excellent digitally captured images.

www.wrotniak.net/photo/dof

IMAGE CAPTURE IN LOW LIGHT

Forum technique



I've always wanted to capture good sunsets/sunrises, but I've been disappointed with the results that I've achieved so far.

In the winter, when the sun is setting as a dark, red ball to the naked eye, it always comes out wishy-washy pink in my shots. I've tried stopping down, but then everything just gets

murky. Have you got any tips that I can use?

Gwynne Penny



Shooting sunsets can be difficult, mainly because of the high contrast between the sun and the surrounding sky, and the difficulty in rendering colours correctly. The camera's metering system is set for

average conditions. Sunsets often fool the system, and this can lead to overexpose, which means pale, washed-out colours and a sun that has burned out and spills into the surrounding areas of tone.

To avoid contrast problems, it's best to wait until the sunset is well advanced, and when the brightness of the sun is weak, with a more even

spread of tones. When you come to shoot the sunset, the easiest and most effective way to arrive at the best exposure level is to try a variety of exposures. Look at the LCD screen and choose the best one – it may be better to underexpose rather than overexpose. Here are some sunsets taken in a land of spectacular sunsets, the United Arab Emirates.



An example of a difficult sunset: even though the sun is only just above the horizon, it's bright as the atmosphere is clear. Light is spilling out, causing poor definition of the disk of the sun, and lens flare. The exposure was 1/160 at f7.9.



This was easy to photograph because the sun was low in the sky and thus reduced to a white disk by dust in the atmosphere. There is not a huge amount of contrast difference between the sun and the surrounding tones.



This image presents a number of problems. Even though the sun is close to the line of the mountains it's still very bright and we have lost the definition. Exposure was 1/260 sec at f8.9.



Here we have reduced the exposure bias to -2, so that the exposure is 1/568 sec at f 11.1. The sun is now clearly defined, but we have lost the attractive orange colour in the sky. What can we do?



If the colour doesn't look right, change it! Here, the original tone of this image was similar to C. A new layer was filled with orange and set to Overlay. Note that the rays of sun have caused a giant, halo effect that works well in this case.



Two images can be combined. Here the sun has been placed above a tanker. Both shots were taken at almost the same time. The sun is weak and causes no exposure problems. Pink has been applied to the lower half of the picture.



Here three pictures have been combined (two pictures of mosques and one shot of a water tower). Take any building/tower, place it on a sunset background, darken it and apply some orange to the original image.



MasterClass

HotLine Network Expert **Aidan O'Rourke** shows you how to deal with dust and scratches

Clean images



I have an enormous number of slides and negatives and would like to scan them. The problem is many of them are in a bad state, covered in dust and scratches. I've tried using Photoshop's Cloning tool, but with hundreds of tiny specks of dust it takes an eternity. Is there a software package that can help me?

■ **Ian Dogherty**



I know the feeling: I've been digging through my old slides, but many of them are covered in dust, scratches and fungal growths! They can be enhanced by hand, spending a couple of hours 'spotting' out the dust marks with the Clone tool, or you can use a software fix. Photoshop Polaroid Dust and Scratch Removal can be downloaded for free from the Polaroid website. It's an amazing tool, but using it effectively can take some practice.

Look at the masterclass opposite to find out how to remove dust and scratches from a variety of images.



With Photoshop Polaroid Dust and Scratch Removal, we've ended up with a near-perfect image which, just a few minutes before, was a dusty mess

Don't miss next issue...

In the next HotLine, find out how you can use even a basic digital camera to capture wide-angle views and make higher resolution pictures.

PLUS As usual, our digital photography experts are on hand to solve your problems and shed light on any queries, so do get in touch and keep them busy!



Clean up a scan

This is a scan of a 35mm transparency of the Liverpool to Dublin ferry arriving in Dublin in 1981

[1] The original image

This is the result of a scan of a 35mm transparency of the Liverpool to Dublin ferry arriving in Dublin in May 1981. The Kodachrome has retained its original colour balance extremely well, but due to the effects of time, the film is covered in tiny specks of dust, scratches and strange spidery shaped marks. An hour or two of careful work with the Clone tool should be enough to clean up this image, but there is another, quicker way!



[2] Dust and scratch removal

With Polaroid Dust and Scratch Removal, two hours meticulous work by a skilled Photoshop artist is done in a few seconds. A preview window appears showing how the image will look after the filter has done its work. There are various controls (full details in the manual) but, for now, let's use the default settings.



[3] Controlling the filter

Hey presto! All but the largest dust marks and scratches have disappeared, but the filter has done some strange things to other elements of the image. It has removed some of the portholes and most of the masts and aerials. How can we control the effect of the filter so that it only removes the things we want it to remove? There's a simple answer: layers!



[4] Using layers

Copy the cleaned up image into the clipboard, revert to the original and then paste the cleaned up file onto a layer above it. Setting the delete tool to a small brush, carefully delete through the cleaned up layer to reveal the portholes and masts on the original image underneath. Nearly all the dust and scratch marks remain hidden. Then we merge all layers.



[5] Live forever!

Finally go over the file to remove any larger marks that the filter has missed and make any remaining changes. The car ferry has long since been scrapped, but its image lives on spotlessly, thanks to Polaroid Dust and Scratches Removal!



You'll find Polaroid Dust and Scratch Removal at www.versiontracker.com just enter 'Dust' in the search field.

DCMAG.CO.UK

**ACTIVE
THREAD!**

[dcmag.co.uk/
scans](http://dcmag.co.uk/scans)

F-NUMBERS

DEPTH OF FIELD



How do f-numbers relate to the old film cameras? I think that most digital cameras have a range from f2 to around f8, whereas film cameras go up to around f22. I appreciate that f8 is probably equivalent to f22 on film, but why do I still read in digital photo books and magazines advice to take pictures at f22 for great depth of field? I don't know a digital camera that has those high numbers. Or am I wrong?

■ **Brian Waugh**



Digital SLR cameras (the ones with interchangeable lenses) do have those high f-numbers, but most compact digital cameras only go up to f8. The f-number describes the amount of light passing through the lens. Think of it as being similar to a fraction: when the lens is stopped down to f8, only one eighth of the light is getting through similarly for f22 or for f2.8. The smaller the aperture, the greater the sharpness and depth of field. The larger the sensor or film size, the longer the focal length and the smaller the aperture has to be. Old-fashioned, large format 10 x 8-inch cameras (80 square inches) require f64 or f128 to get reasonable sharpness or depth of field. Present-day compact digital cameras, with their 'micro-format' sensor (smaller than one square inch), need only a moderately small aperture. The characteristics of the different formats are quite different, so you can't really talk about equivalents.



To find out more on f-numbers on Digital Camera Magazine Forum, and 'On The Forums'

DCMAG.CO.UK
ACTIVE THREAD!
dcmag.co.uk/brighten

WINTER PICTURES

BRIGHTENING PHOTOS



Are there any techniques to brighten up colour photos taken in dull, winter weather? What about adding a few interesting clouds?

■ **Shane Coggin**



Many photographs taken in overcast weather can look disappointingly gloomy and dull when they are viewed on screen. You might be tempted to bin them but, believe me, they can be improved. The reason why photos taken in cloudy

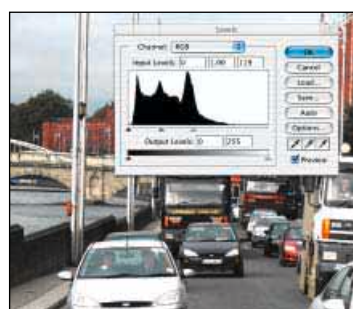
weather look unappealing to the eye is the low level of contrast (the difference between the brightest and the darkest parts of the scene). Digital cameras are configured to give good results with contrast levels typical for sunny weather. When the sun goes in, the level of contrast reduces, and this creates a less punchy image.

Although you can increase the contrast on your camera, this means that the mid-tones tend to burn out the whites. The answer is simple – make two copies of the picture on different layers, work on them separately, adjusting for the contrast in the mid-tones and in the sky, and then combine them using the

Eraser tool. I use this technique all the time to give more 'oomph' (that is, contrast), to images shot in dull light.



The first picture taken in cloudy weather on Dublin's Quays is dull. Shoot slightly underexposed to avoid burn out of white – a common problem on digital cameras.



An easy way to lighten everything using Levels is to drag the right-hand slider to the left, turning the lightest grey to white and adjusting all other tones accordingly. It looks brighter, but the white areas have burnt out.



The solution is to lighten a second copy of the original file, but not as much. With two versions on layers one on top of the other, delete only whitest areas, revealing the more moderately lightened version underneath.



Merge the two layers and you have a version of the same image but with the tones much lighter and with more contrast.

ON THE FORUMS

www.dcmag.co.uk/forum

IN RESPONSE TO BRIAN WAUGH'S QUESTION ON DEPTH OF FIELD



My understanding is that the greater depth of field arises from the fact that the CCD area is less than that of 35mm film.

Think that 35mm film is about 1.4 square inches, but that 3.3MP CCD is about 0.7 sq inches. The smaller the CCD, the bigger the depth of field for any particular f-stop. So, not all digital cameras are the same! It may be that the big 11MP jobs are getting nearer 35mm in practical terms.

Roll film cameras with bigger 'film' area still are a step in the other direction, and you then need f22 to behave like f8 at 35mm which, in turn, is like f4 in the Coolpix.

I note with interest, that my Minolta 7i actually has the focal length indicator on the zoom ring listed in 35mm 'equivalents'!

I agree with Jonathan that the basic camera manual has been 'handed down' from the rollfilm era.

■ **Mark Harvey**

TRAVELLING TIPS

X-RAY MACHINES AND MICRODRIVES



Some time ago you answered a query about xD cards and airport X-ray devices. You replied that the card and the camera would be safe because they worked electronically. I understand that xD, CF and the other cards are 'static' memory and that's why they are unaffected by the X-ray. But what about the IBM Microdrive, which is a small hard disk? I'm also planning to travel with a portable memory storage device, which has a 40GB internal hard drive. Is it safe to allow the hard drive and the microdrive through the X-ray device? I believe laptop computers shouldn't be X-rayed because of the hard drive, so does the same apply here?

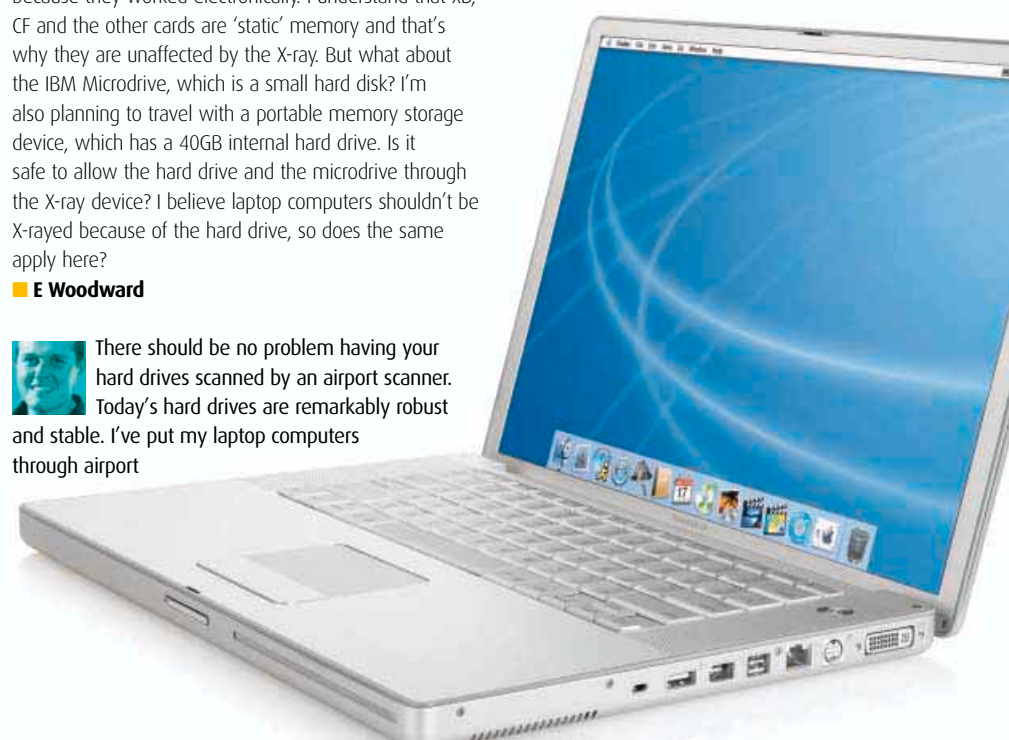
■ **E Woodward**



There should be no problem having your hard drives scanned by an airport scanner. Today's hard drives are remarkably robust and stable. I've put my laptop computers through airport

scanners many times and have had no problems. Viruses, worms and badly designed software packages pose a much bigger threat to your portable storage devices than airport scanners!

Bon Voyage! Airport X-ray devices won't damage your hard drive



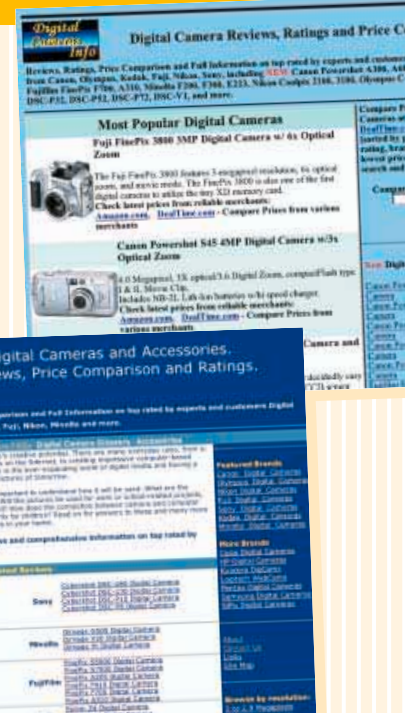
Recommended websites

Key websites

digit-all-cameras.com and digital-cameras-info.com

Two websites that seem to be produced by the same organisation based in Plano Texas, provide an interesting case study on what's good and what's not good in digital photography websites. Both sites are crammed with text (some of it common to both websites), giving ratings, reviews and price comparisons of digital cameras, plus background info on digital photography. Glossary explanations are original but camera descriptions are taken straight from press releases. And on the technical pages there are words but no diagrams.

Websites such as these demonstrate the superior layout, quality of information and general production values of my favourite digital photography resource website Phil Askey's legendary dpreview.com (featured previously in Hotline pages).



3 EASY WAYS TO ORDER!

- 1. Phone** 0870 444 8680
- 2. Post:** UK readers - Christmas Orders, Future Publishing Ltd, Freepost BS4900, Somerton, Somerset, TA11 6BR
Overseas readers - Christmas Orders, Future Publishing Ltd, Cary Court, Somerton, Somerset, TA11 6TB, UK
- 3. Fax** this completed form to: +44 (0)1458 271146

Please select your preferred offer and complete the details below.

GIFT 1 - Free Book please quote code **DCMP15**

☐ I would like to subscribe/renew to Digital Camera Magazine and benefit from the FREE Digital Camera Handbook **worth £12.99!**

UK	Europe/N.America	Rest of World
<input type="checkbox"/> £49.90 (CD Edition)	<input type="checkbox"/> £49.90 (CD Edition)	<input type="checkbox"/> £80.00 (CD Edition)
<input type="checkbox"/> £54.90 (DVD Edition)	<input type="checkbox"/> £54.90 (DVD Edition)	<input type="checkbox"/> £85.00 (DVD Edition)

GIFT 2 - 40% off please quote code **DCMP15**

☐ I would like to subscribe/renew to Digital Camera Magazine using this special Christmas offer (delete as appropriate):

☐ I would like to send a Gift subscription of Digital Camera Magazine [copies will not arrive until the first issue on sale after 25th December 2003]

UK	Europe/N.America	Rest of World
<input type="checkbox"/> £38.90 (CD Edition)	<input type="checkbox"/> £49.90 (CD Edition)	<input type="checkbox"/> £80.00 (CD Edition)

BEST OFFER! SAVE £25.97!	BEST OFFER! SAVE £30.97!	
<input type="checkbox"/> £46.70 (DVD Edition)	<input type="checkbox"/> £54.90 (DVD Edition)	<input type="checkbox"/> £85.00 (DVD Edition)

I understand that I can only subscribe to one offer and have made my selection above.

YOUR DETAILS:

Title.....Initials.....Surname.....
Address.....
Postcode.....Country.....

GIFT RECIPIENT'S DETAILS:

Title.....Initials.....Surname.....
Address.....
Postcode.....

PAYMENT DETAILS (please tick)

☐ I enclose a cheque for £.....

Made payable to Future Publishing Ltd

or

I wish to pay by

☐ Switch ☐ Mastercard ☐ Visa ☐ AMEX

Card no.

Expiry date /

Switch only: issue no. valid date /

/ /2003

Signature **X**

Date.....

Closing date 31.01.04

To ensure you receive your gift card to give to your recipient, please order before 01.12.03

Gift Cards** The final cut off date for ordering gift cards to reach you before Christmas day is 15th December. However, we recommend that you order your gift subscription before 1st December 2003 to guarantee your gift card will arrive in time. Orders can still be processed after 15th December, but gift cards are unlikely to reach you before Christmas day.

☐ Please tick here if you do not wish to receive mail from Future Publishing

☐ Please tick here if you do not wish to receive mail from other carefully selected companies

Send to: **Digital Camera Magazine Christmas Orders**

UK: Future Publishing Ltd, FREEPOST BS4900, Somerton, Somerset, TA11 6BR

Overseas: Future Publishing Ltd, Cary Court, Somerton, Somerset TA11 6TB, UK

CHECK OUT THE OTHER SUBSCRIPTION OFFERS!

SPECIAL

GIFT 1

FREE BOOK!

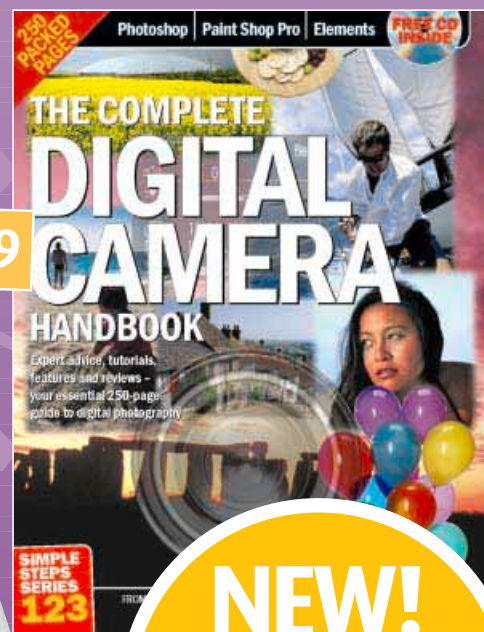
The Complete Digital Camera Handbook

250 pages of photo techniques and creative tutorials!

Subscribe today
and we'll send you
this fantastic book*

WORTH £12.99

* This offer is subject to availability. Future Publishing reserves the right to substitute this gift with an alternative. The Complete Digital Camera Handbook is only available to subscribers in the UK who pay by Direct Debit



NEW!

Get the mag in digital format each month!
For more details see
our website or
www.zinio.com



Zinio

Visit www.dcmag.co.uk today

CHRISTMAS OFFER!

CHOOSE FROM...

GIFT 2

SAVE 40% ON THE PERFECT CHRISTMAS GIFT

That's a saving of over **£31** on the cover price (DVD Edition)

Stuck for ideas this Christmas? Buy a gift that lasts all year

A subscription to Digital Camera Magazine magazine makes the perfect Christmas gift for a friend, relative or even yourself!

- Save 40%* on the price you'd pay in the shops
- FREE** gift card for you to give on Christmas day
- FREE delivery direct to your door
- Never miss an issue

DCM brings you:

1. Expert advice to improve your photography
2. The world's most comprehensive kit reviews
3. In-depth tutorials on Photoshop and Paint Shop Pro
4. The best coverdiscs and a free pull-out guide!

Taking out a subscription or giving a gift is easy, simply call **0870 444 8680** or complete the order form opposite and send to the freepost address.

*40% Saving is based on 13 issues bought on the UK newsstand. This discount is only available to delivery addresses within the UK.

3 ways to subscribe...

1 Fill in the form opposite and post back today

2 Visit our website at www.dcmag.co.uk and subscribe online

3 Telephone **0870 444 8680** with your details



Photo clinic

Send us your photos and our technical expert, **Andrea Thompson**, will tell you what she thinks! The best submission each month wins a full copy of Adobe Photoshop CS, so what are you waiting for?

THIS MONTH'S CONTENDERS

Phone booth from
Richard Harrison

Liam from
Nikko Liadopoulos

HOW TO SUBMIT YOUR PHOTOS

You can submit up to five photos each month, but you must include the following details with each entry:

- 1) The make and model of camera used, plus any lens attachments and filters.
- 2) The exposure settings used (EXIF data).
- 3) What prompted you to take the picture.
- 4) What image-editing effects and techniques you applied, and why.

Save photos as high-res JPEGs, TIFFs or PSD files.

Email all text and images to: andrea.thompson@futurenet.co.uk, including the subject heading 'Photo clinic'.

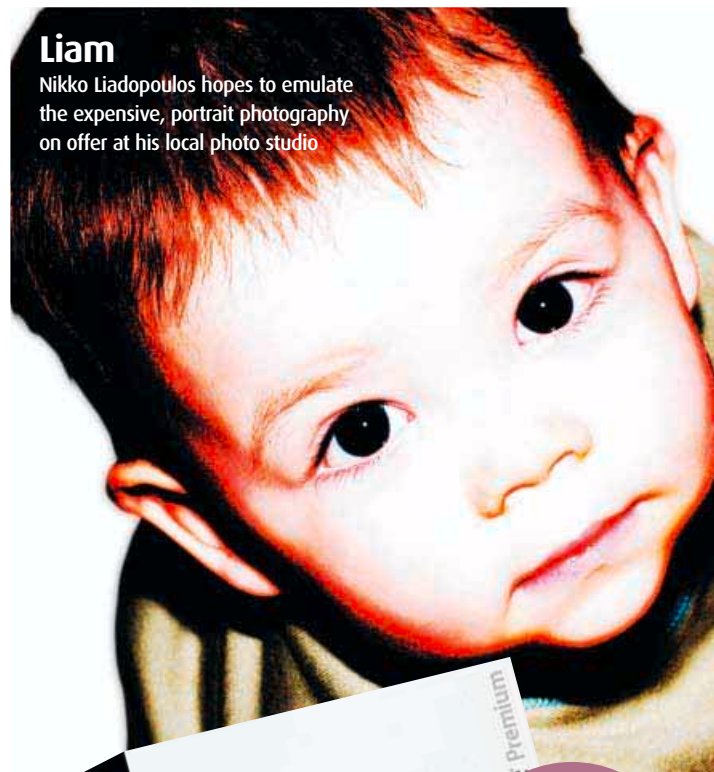
THE RULES

A cash alternative to the prizes is not available. We reserve the right to substitute prizes of equal or greater value. The editor's decision is final. By entering the competition, you agree to grant us an exclusive three-month license to publish your photographs in any manner we see fit, in any medium, in conjunction with the competition. After three months, this changes to a non-exclusive license on the same terms.



Phone booth

Richard Harrison borrows a pal's wife to model for this glamorous photomontage... now that's true friendship!



Liam

Nikko Liadopoulos hopes to emulate the expensive, portrait photography on offer at his local photo studio

Submit your images and win a copy of Photoshop CS!

Yep, if we like your image, a free copy of Adobe's fantastic new version of Photoshop, worth a cool £605, could be yours!

Are you looking for an honest, independent and constructive diagnosis of your images? Then why not drop into our friendly Photo clinic, and pick up some expert technical advice and essential tips to help you get even better results from both your camera, and your image-editor.

Each month the winner of our Star Photo award walks away with a full copy of Photoshop CS with Adobe ImageReady CS, the brand new version of

Adobe's image-editing suite. It's crammed with new exciting new tools and enhanced features for photographers and digital artists.

Our runner up will win a hardback copy of Tom Ang's superb Digital Photographer's Handbook – a lavishly illustrated, jargon-free guide to helping you get the most out of your digcam, computer, peripherals and image-editing software. So get those entries sent in on the double – there's nothing to lose!



**YOU'RE
THE JURY!**
www.dcmag.co.uk/photoclinic

Succeed or fail?

We want to know what you think of your fellow readers' photos!

Head over to www.dcmag.co.uk/photoclinic now, take a gander at next month's Photo clinic entries and email your thoughts to

andrea.thompson@futurenet.co.uk. We'll print out the most entertaining, well-informed, scabrous or helpful comments in next issue!

PRIZE
WINNER!

PHOTOSHOP
CS WORTH
£605!



Phone booth

Richard Harrison goes for an unlikely setting in this daring nude fantasy

Equipment used Olympus C-700 UZ and C-750 UZ digicams, Portafash studio lighting, Photoshop 7

I've never been a fan of glamour photography, but I have to admit that I immediately liked this composite, which combines a Lanzarote holiday snap with a nude studio

shot. Granted, it is strongly evocative of those kitsch Athena posters so omnipresent in the 80s, but at the same time I think that the gritty, dramatically lit, black and white scene with its palm trees, incidental cars and rubbish, give it the alluring air of a film still. The shocking pink detail works well too, drawing the eye in away from the cluttered background and bringing the whole picture alive. In fact, I don't think the image would work anywhere near as well without this selective splash of colour – the composition simply isn't powerful enough to stand alone in monochrome.

What impresses me most is how well the studio lighting matches the angle and intensity of the natural

YOU'RE THE JURY!

"Looks like an advert for Pink Bras. If so, this is a powerful marketing image that any underwear company would be proud of."
Jeremy Johnson

"It created from two images? It looks like the girl is actually there."
Roy Oldershaw

YOUR VERDICT? **SUCCEED**



IN FOCUS

01 The sky has obviously been burnt in manually and is uneven and unrealistic **02** The studio lighting perfectly matches the angle and intensity of the natural light in the background, enabling the figure to be blended in convincingly **03** The splash of bright colour really makes the image



light in the background. Despite the odd telltale inconsistency, it enables the woman to blend in almost seamlessly, and has also created an attractive glowing outline around the figure. Richard used the Magic Wand and Polygonal Lasso tools to cut the model from a white studio backdrop, feathering around her hair in Quick Mask mode using a soft edged brush. On the whole, the cut-out is immaculate, but there are a few minor discrepancies around the hair and ankles, which I'd be inclined to re-do for the sake of realism. The areas where Richard has burnt into the underexposed sky could also do with extra attention – at the moment the sky looks fake because it doesn't spread across evenly behind the phone booth.

Technical aspects aside, my biggest concern is that this image treads a fine line between celebrating and worshipping the female form, and objectifying the subject in a degrading way. The juxtaposition of the nude within the urban landscape is quite perplexing in itself, and if you take the dangerous and illegal scenario here at face value it becomes downright alarming.

Ultimately, though, because the scenario is so laughably unreal, and therefore little more than a male fantasy, it manages to remain inoffensive. Moreover, the model is deliberately teasing the viewer – putting her in control. That said, if she wore a bikini and replaced the bra with a bikini top, Richard could have removed the illicit factor and added more realism – without losing the glamorous edge.

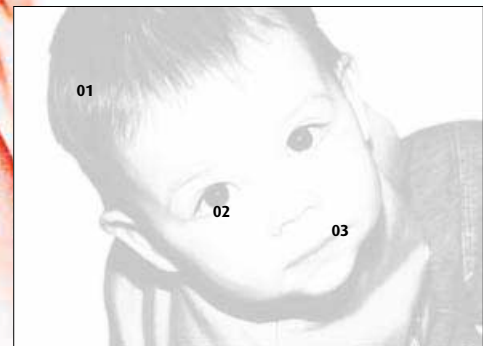
THE VERDICT

A cheeky, cleverly executed photomontage that demonstrates excellent use of selective colour



IN FOCUS

01 The composition is somewhat unbalanced and would benefit from a tighter crop around the face
02 The eye-searing reds and oranges don't suit the delicate nature of a young child **03** The eye contact couldn't be better, but the expression is far too glum



RUNNER
UP

Liam

Nikko Liadopoulos attempts to recreate art house-type effects in Photoshop

Equipment used Canon Powershot G3, Centon flashgun, Photoshop 7

The prices charged by many professional photo studios for their more 'creative' portrait services are enough to make most punters turn green at the gills. Unable to swallow the exorbitant fees being charged by his local studio for a single 8 x 10 print, Nikko decided to try to recreate the ultra-modern, art house effects on offer at home. Using an old, second-hand, non-TTL flashgun with a white linen diffuser attached, he shot the subject (a friend's son) from above as he sat on the living room

floor by the front window. Nikko then cut the boy out using the Pen tool, and pasted him onto a new, white background. I love the imaginative viewpoint and the eye contact is terrific, but the overall composition is unbalanced and would benefit from tighter cropping around the face. The outline of the hair also looks unnaturally smooth – shooting against a similarly coloured, dark background instead of a white sheet has made it almost impossible to extract the individual hairs.

To give his shot that intended look Nikko then applied multiple screen and overlay blend modes, together with a touch of diffuse glow. While the outcome is certainly a modern-looking, high-impact portrait, at the same time it looks completely over-processed, and all the warm, fleshy skin tones in the original have been eradicated. The red is so intense it looks as though his lips are bleeding, and although the porcelain, white skin zeroes you in on those

YOU'RE THE JURY!

Succeed or fail?

"The lad looks overexposed and washed out, his eyes are too dark and there's a weird red effect round his face."

Roy Oldershaw

"Cute kid, good composition, why such high contrast? The totally white background looks contrived, too."

James Bullard

YOUR VERDICT? **FAIL**

mesmerising, brown eyes, the poor chap looks absolutely freezing. He doesn't look too happy about the situation either, which is a real shame because I bet he's got a great smile.

Using blend modes with photographic portraits can produce some interesting and powerful effects, but it's important to use them cautiously, particularly if you're multiplying them together. For example, screening the same layer more than twice can bleach out skin tones altogether, and because overlay mode multiplies the existing colours, making multiple overlays quickly results in over-saturated, theatrical colours. My guess is that Nikko layered as many as eight blend modes here, and although the effect is too severe for a young child, it could be well suited to a teenager or an adult.

THE VERDICT

A valiant effort, but the effect looks overcooked and isn't particularly flattering



YOUR PICTURES

THE PANEL



Adam Evans
The illustrious editor of
Digital Camera Magazine



Tom Ang
Prolific author of many
digital camera books

EMAIL YOUR BEST SHOTS TO **EDITOR.DCM@FUTURENET.CO.UK** **SHOOT**

Damian Lowry

NAME OF PICTURE Hoverfly on sunflower

This is one of the first shots I have taken with my new Olympus C4000z. I am delighted with the detail captured (the pollen on its legs and the fine hair detail), along with the colour rendition. The picture was taken in my garden using the super macro facility.



TOM Well done: a sharp close-up of a hoverfly. Try adding a gradient to the yellow petals to darken them and improve framing of the fly.

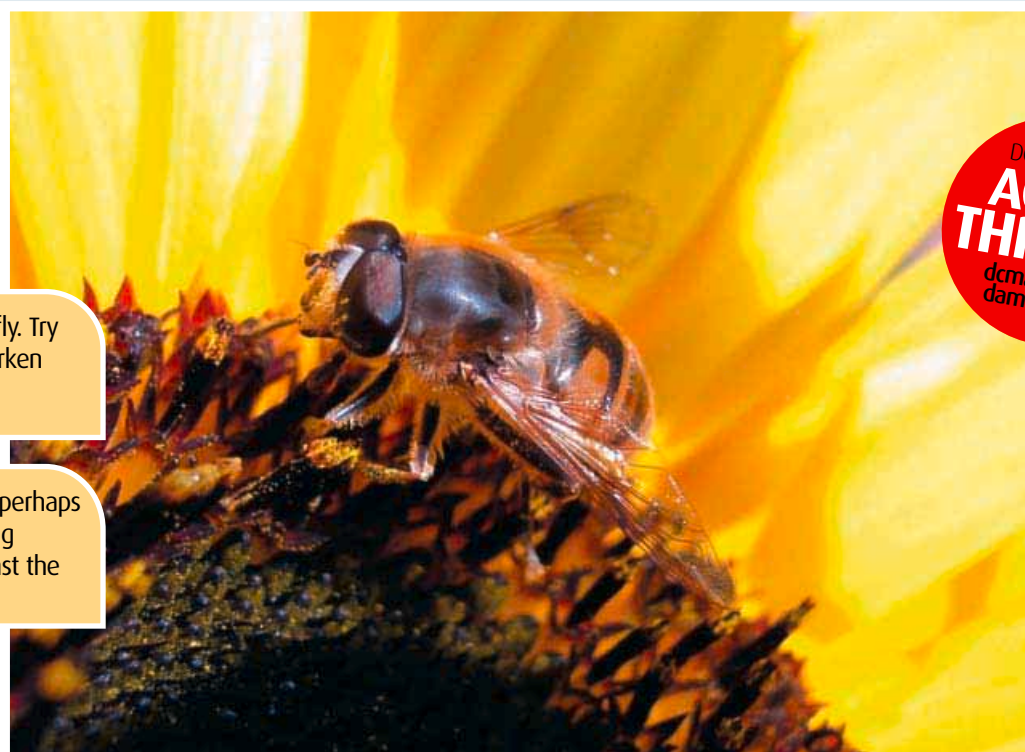


ADAM Fabulously sharp and detailed. Could perhaps have benefited from a slightly lower shooting position, to get more of the dark body against the yellow background.



Have your say!

Email your comments to editor.dcm@futurenet.co.uk or join us on the forums at www.dcmag.co.uk/damianlowry

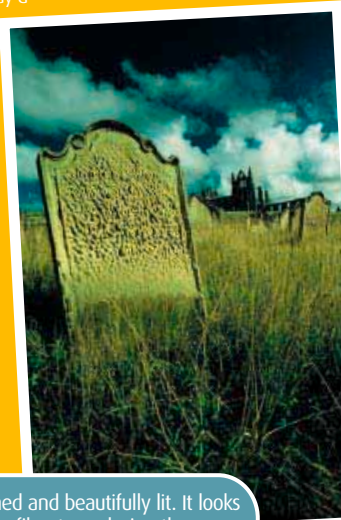


DCMAG.CO.UK
**ACTIVE
THREAD!**
[dcmag.co.uk/
damianlowry](http://dcmag.co.uk/damianlowry)

John Winstanley

NAME OF PICTURE Headstone

This was shot near the cliff-edge path in the graveyard at Whitby, one fine late summer day & facing south east – the light was just great for the stone texture. This is the graveyard that Dracula claimed his first English victim in – in the original book that is!!



TOM Well framed and beautifully lit. It looks like a scan from film: try reducing the green and clean up the dust-specks in the sky.



ADAM Brilliantly atmospheric. A bit less of that foreground grass in the bottom of the frame would have aided the composition.

Sandra Young

NAME OF PICTURE Sparkler

Here is a firework shot I took, after picking up the tips from issue 14.




TOM Nicely judged timing and exposure: obviously it was right to turn the flash off. You could ask your subject to make more adventurous patterns.




ADAM You did well to get such a clear shot of the subject by the light of the sparkler but as Tom says, a more interesting pattern would have really made it something special.


Your verdict!


What did you think of last month's lead image? Here, we select the best of your opinions...

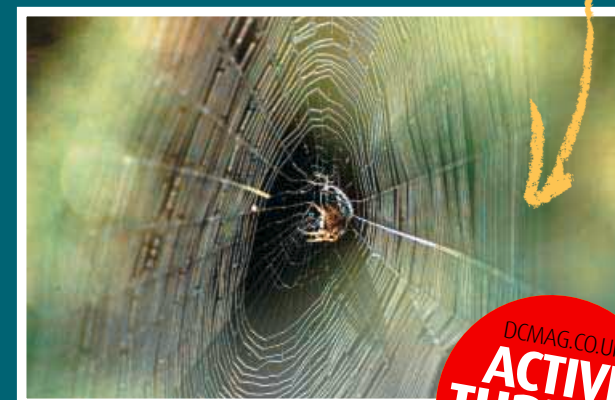
 **Tom said** A well executed shot: beautifully lit and composed with excellent control of focus. But we see your sensor could do with some cleaning.

 **Adam said** Yes, a lovely shot with great use of light. Personally, I'd crop the sides a bit to get rid of the big distracting splodges on the left.

YOUR COMMENTS

 **Sarah Michel** It's a nice shot but the spider is so small in the centre that it's almost impossible to see it! A bit less web and a bit more arachnid would be my advice!

 **Glenn Tining** The perspective on the spider's web is excellent and, with the light streaming through it, makes it feel really natural and simple. Well done, Mark.

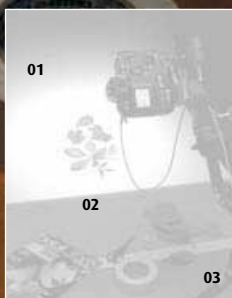


DCMAG.CO.UK
**ACTIVE
THREAD!**
[dcmag.co.uk/
markvpik](http://dcmag.co.uk/markvpik)

Setting up a budget studio

Part 3

If you're a budding still-life photographer, then studio lighting offers the ultimate control over every step of the process. Tim Daly guides you through the pitfalls of working at close range



LIGHTING

With studio still life shots, you need to take care to avoid lighting fall off and to create sufficient depth of field

- 01 Backlighting with softbox diffuser
- 02 White Perspex
- 03 Benbo Tripod

Unlike studio portraiture and large scale advertising shoots, studio still life is undertaken on a much smaller scale altogether. An essential part of the set is a table that's designed and built at such a height to allow the maximum flexibility over both the shooting and lighting positions. Most good still-life tables are supplied with a translucent white, perspex surface that curves upwards to form a gentle slope. This angle-free curve enables the photographer to create the impression of three dimensional space behind the still-life. The translucent surface also comes in useful for lighting underneath to remove shadows and unwanted reflections.

Better tables can also accommodate a half width paper background roll for shooting with specific colours. Although still-life tables are to be found in most professional studios, there are much cheaper alternatives for home use. For shooting side on, any lightweight table can double up as a still-life table, providing it's wide enough to accommodate a good-sized background paper or length of fabric.

Lighting and exposure

With studio still life, the important thing to remember is that you're working on a much smaller scale. For small sets, a single, narrow spotlight or a flash unit with a medium-sized reflector will provide ample illumination. And, if necessary, the light can be shaped with the addition of card reflectors or barn doors around the head.

Generating enough depth of field at such a close range is the classic problem associated with studio still life and it can be a tricky situation for the novice photographer. Studio flash units are made and sold with different strengths, with higher power devices costing more than low power units.

In certain circumstances, not enough light intensity is created from a single burst of flash to match the desired aperture value which, in turn, does not create enough depth of field. In this situation, the flash unit can be fired several times in conjunction with an open shutter, and a cumulative light reading is taken until the required



Mini stands are essential for placing your light safely at a low angle, they can really help you to produce low, raking light effects



aperture value is reached. In these circumstances, no other ambient light can be present during the multi-flash exposure – the modelling light must be turned off and the shot taken in a dark room.

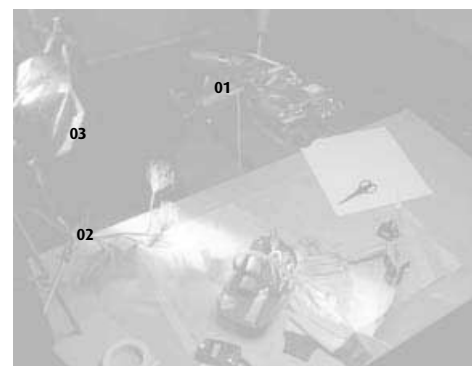
Lighting fall-off can also play a major part in your



close-up work, if you position your light too close. Fall-off occurs when one side of your shot looks darker than the other due to uneven lighting. This can be minimised, however, by pulling your flash unit away until the imbalance becomes less noticeable.

With a small still-life subject, your entire set can fit onto a sheet of A3 paper, and you can try two popular shooting positions: side on, or from above. Most classic still-life shots of flowers in vases are taken side on, where the camera is supported by a standard tripod. Shooting from above, however, needs a different kind of camera support such as a studio stand or a multipurpose tripod (like one from the Benbo range), which can be altered to allow a downward shooting position.

Barn doors are used to control light and mask off a subject. They can be placed in a variety of positions, which makes them very adaptable



STILL-LIFE SETUP

01 To shoot from above you need a multipurpose tripod or a bespoke studio stand. 02 A clamp and stand is a great tool with which to elevate and position small objects 03 A single flash unit and reflector should suffice for a small set such as this

Creative tips

At a small scale, the direction and quality of light can make or break a still-life photograph. Small subjects can be better served with tiny mirrors, scraps of white card and opaque strips to block and direct the light. At their most inventive, still-life photographers can generate stunning images with throwaway lighting gadgets.

To avert the rather cold and colourless appearance of studio flash, many professional food photographers will make exposures using both colour-corrected flash and the warmer tungsten modelling light to make a more appetising result. Once the flash meter reading is taken, a slower than normal shutter speed is selected – for example, 1/15th – to allow the sensor to record the tungsten light as it flicks back on after the flash has been fired. Unlike a warm up filter, the intensity of the warmth can be varied by extending the shutter speed. ■

EXPERT TIP

**TIM DALY'S
LIGHTING TIPS**

FLASH SYNC SPEED

Most cameras can be used with external flash units providing the right shutter speed is set. All professional cameras have a maximum flash synchronisation shutter speed, such as 1/60th or 1/125th. If faster shutter speeds are selected, then the resulting photographs display a characteristic, strip-like error. This is due to the moving shutter curtain only revealing a portion of the sensor or film at any one time when set to faster speeds.

WEBLINKS

ROBERT MAPPLETHORPE

www.masters-of-photography.com/M/mapplethorpe/mapplethorpe_calla.html

The master of the graphic still life, Mapplethorpe's flowers are an exercise in reproducing perfection.

TESSA TRAEGER

www.tessatraeger.com

A prolific still-life photographer, Tessa Traeger has carved out her own, unique style.

TOM BARIL

www.robertkleingallery.com/gallery/baril

Approaching architecture and still life with the same sensitivity, Tom Baril's work is an inspiration.



**CONTACT US!
TIM DALY**
tim@photocollege.co.uk

LIGHTING WITH TRANSLUCENT SCREENS



01 USING TISSUE PAPER

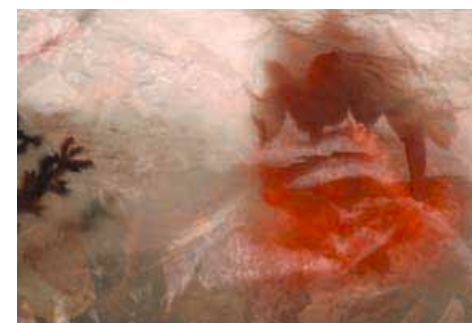
A sheet of A3 white tissue paper is held just in front of a red rose which, in turn, is placed in front of a sheet of plain, blue paper. The flash, equipped with a softbox, is positioned to one side of the paper and shines at a raking 180 degree angle.



02 USING WET TISSUE PAPER

Using the same flower subject, but replacing the blue background with a sheet of shiny gold paper, this variation was also covered with tissue paper. To create an interesting light effect, water was sprayed onto the tissue to make some parts more translucent.

Three different methods of diffusing an image using tissue paper and silk



03 USING A SILK SCARF

The final variation was made by removing the tissue paper and replacing it with a fine, silk scarf. The resulting image shows a very different kind of effect, but one where the pattern of the fabric combines with the flower, like a Photoshop layer effect.

NEXT MONTH

NEW SERIES

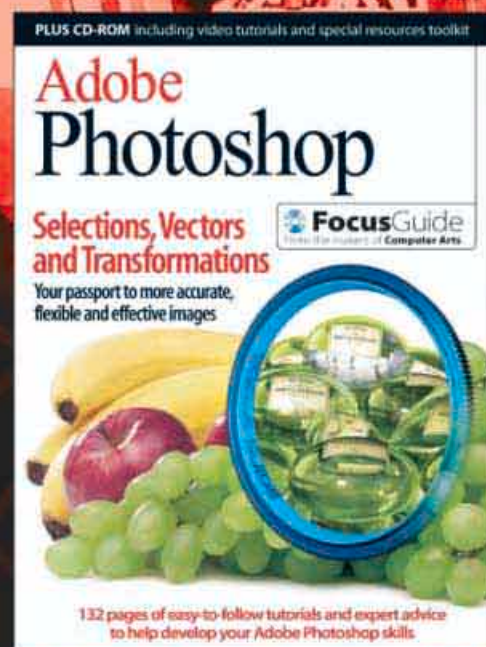
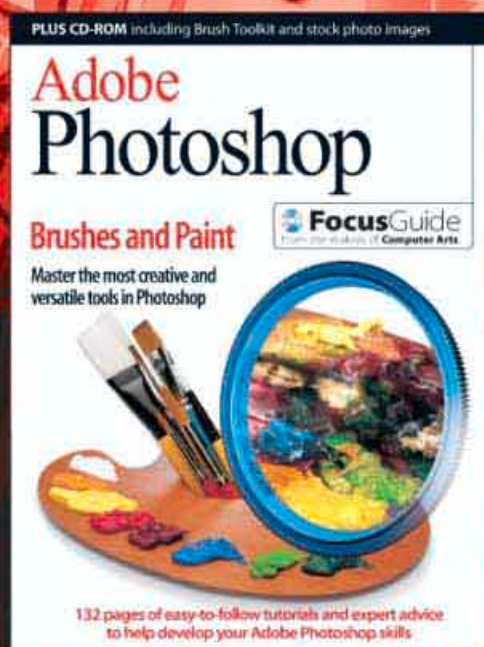
We start a new series on photo techniques



Adobe Photoshop

 **FocusGuide**
From the makers of **Computer Arts**

**132 INFORMATION-PACKED PAGES
PLUS FREE CD-ROM**

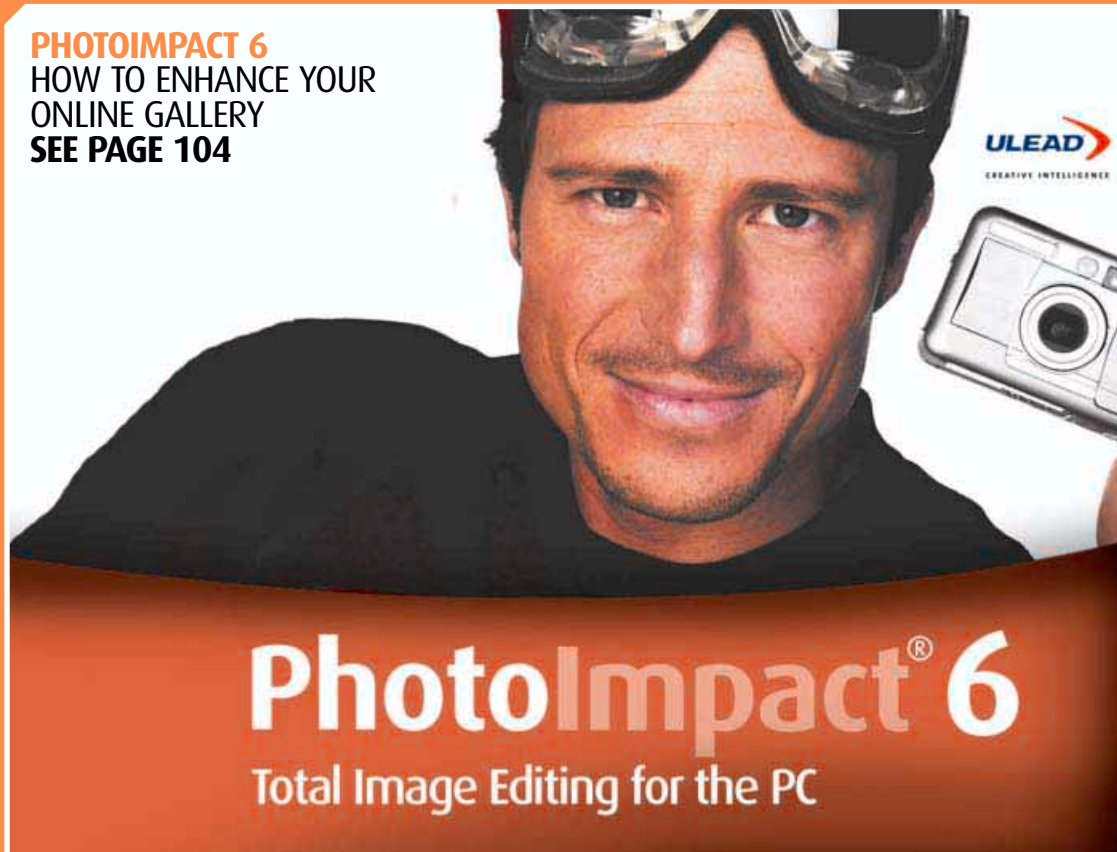


**The world's best image editing program
isn't just for the pros! We'll help you master
Photoshop's essential tools and features**

GET YOUR COPY NOW
Available from **WHSmith** and other retailers

CONTENTS SUBJECT TO CHANGE

PHOTOIMPACT 6
HOW TO ENHANCE YOUR
ONLINE GALLERY
SEE PAGE 104



Section highlights...

CD WORKSHOP PHOTOIMPACT 6

Create your own web graphics and post them on your online gallery, using PhotoImpact

PAGE
104

CD TUTORIAL PICTUREMAN 3.1

Try a new way of working with photos using this powerful, processing, editing and retouching tool

PAGE
106

CD TUTORIAL FOCUSFIXER

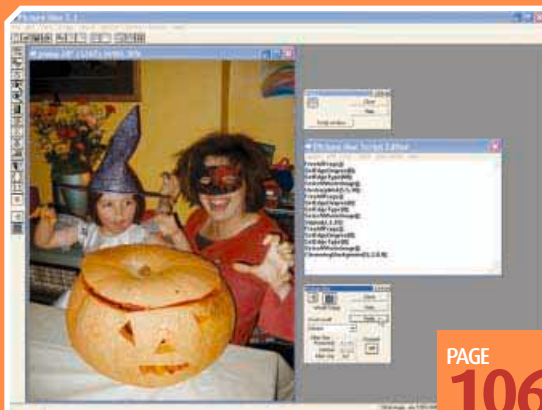
Bring out the best in your photos: use FocusFixer to fix out-of-focus shots with the click of a button

PAGE
107

BETTER PRINTING MAKING ANTIQUE MOUNTS

Take an old mount, scan it in, and transform it into something really special for your old prints...

PAGE
108



PAGE
106



PAGE
108

PC & internet

Expert advice on using hardware, software and the web

Tutorials you can trust!



Our aim is to bring you creative ideas, expert tips and quick fixes you can use in your own work.

Authoritative A leading professional in his/her field writes every tutorial. **Value-added** We try to include

image files, and full or trial software so you can try the tutorial for yourself, delivering a complete package.

Clear Our large page size means we can add extra elements, explanations and detail to each tutorial.

Contact our editorial team



If you have a comment, suggestion, idea or submission you would like to make, please email us at editor.dcm@futurenet.co.uk Visit our website at www.dcmag.co.uk

Web graphics in PhotoImpact 6.0

Provide your own graphics to enhance your online gallery and make your pages that little bit more original...

FREE
on issue 13's
cover disc



PHOTOIMPACT KEY DETAILS

PUBLISHER
Ulead

PRODUCT STATUS
Full product

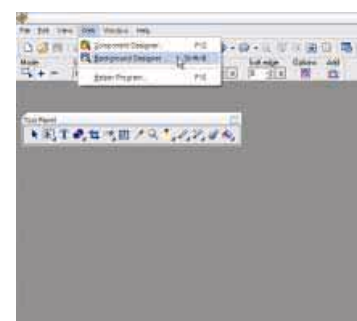
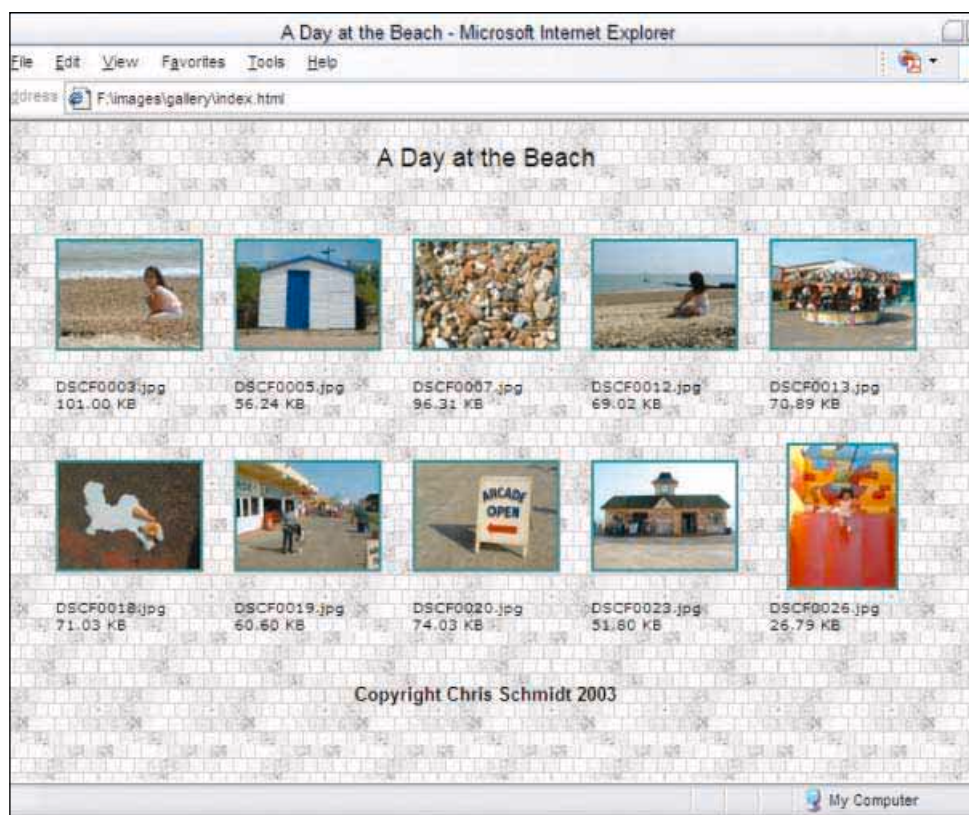
CONTACT
www.ulead.co.uk

SERIAL NUMBER INFO
Register at www.ulead.co.uk/events/pi6register.htm

SKILL LEVEL

4

TIME TO COMPLETE
35 MINUTES



ABOVE

The gallery we created last month provided functional results. The index page shown here allows access to larger images via the thumbnails but the design and layout are rather basic

LEFT

Follow this month's tutorial and we're on the way to making the gallery a little more unique. The background image has been created and optimised through PhotoImpact, and manually embedded into the HTML

EXPERT TIP



**CHRIS SCHMIDT'S
PHOTOIMPACT TIPS**

OPTIMISED GRAPHICS

When creating graphics intended for use on the web, you need to make a careful balance between quality and file size – this process is known as graphic optimisation. Although there are an increasing number of users accessing the internet through broadband connections, such as ADSL, the majority of people still view content through 56k modems. Optimising your graphics ensures such users will have access to your images without forcing them to wait excessive amounts of time.

Back in issue 13 of Digital Camera Magazine we gave away a free, fully-functional copy of Ulead PhotoImpact 6 editing software (check out our back issues on page 110, if you've missed an issue). Since then, we've been looking at the capabilities the software has to offer the digital photographer.

Tutorial recap

Our first tutorial looked at carrying out some routine image retouching that any digital snapper will need to consider. The second tutorial offered a method of creating an online gallery of work, without the need for HTML experience. Although the results created from this stage are functional (and a main index page contains thumbnails that lead through to larger images), the results are quite basic.

Fortunately, PhotoImpact provides the necessary tools to create web graphics, which can be included into the

page layout, in order to give a gallery a look and feel that makes it a little more unique. As the process of creating such graphics may be new to many photographers, we'll ease you in gently, creating a background using PhotoImpact's integrated Background Designer tool.

Get down and dirty

Since PhotoImpact is primarily an image editor with tendencies towards web-graphic creation, the process is quite straightforward, and we'll be able to optimise the final graphic to be as small in file size as possible, while retaining the maximum quality that's possible.

However, when we get round to embedding the image into our page, then we'll have to leave PhotoImpact and manually edit the code – but don't worry, as this only requires a small change that can be done simply through Notepad or any regular text

editor. Do try to keep in mind, though, that the final graphic should be saved within the same folder as the HTML pages, otherwise the code will not be able to find the referenced file.

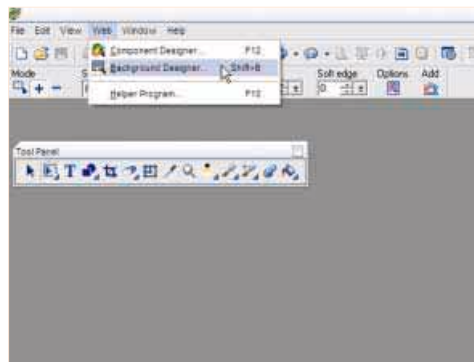
Improve your skills

Try not to panic when it comes to manually editing the code: the changes are basic and, if you've been following our tutorials, you should be feeling more confident by now. We've already learnt a number of techniques over this series so far – routine adjustments, creating an online gallery, designing a new background and embedding this into our pages using simple HTML.

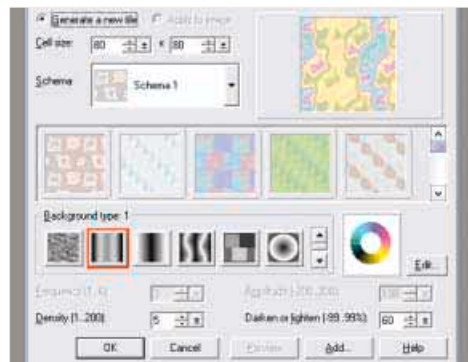
Next month, we'll look at how to create a banner graphic to further enhance the site using a more direct approach to image editing using PhotoImpact. So hold tight as we develop your skills beyond anything you may have previously considered possible... ■

DESIGNING BACKGROUNDS

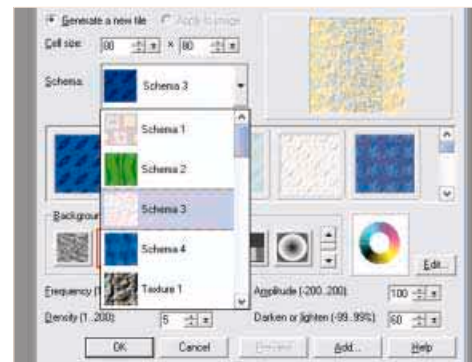
Creating web graphics may be a new area for the average photographer but, thank to PhotolImpact's integrated tools, the process becomes much easier



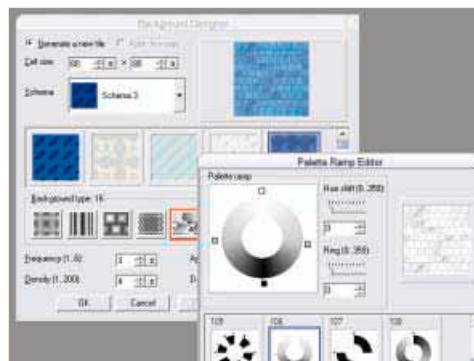
01 GETTING STARTED
Launch PhotolImpact, head straight over to the Web menu and choose the Background Designer option (or use the keyboard shortcut Shift+B) to get started. You don't need a base image open, as the wizard approach provides templates around which your new component will be based.



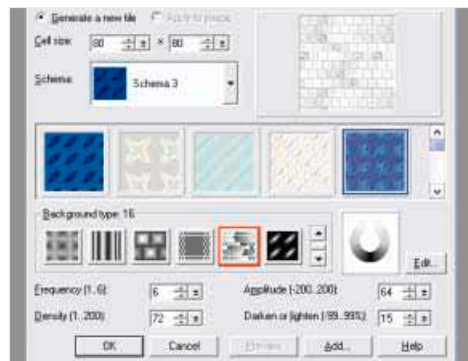
02 OPENING DIALOGUES
The first decision to make is the size of the image – as the background will tile in the final page we can leave this at 80 x 80 pixels to ensure reasonable results at a small file size. Any larger and the graphic might eat into download time; any smaller and the tile might be too obvious.



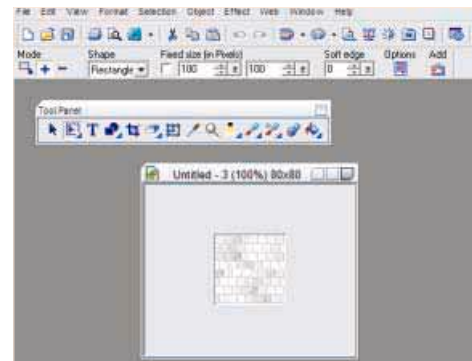
03 CHOOSE YOUR SCHEMA
Next, you'll need to choose from one of the various generic themes available and also from the secondary options available beneath this before continuing. Notice how the preview in the top right of the interface changes to give some idea of the final results.



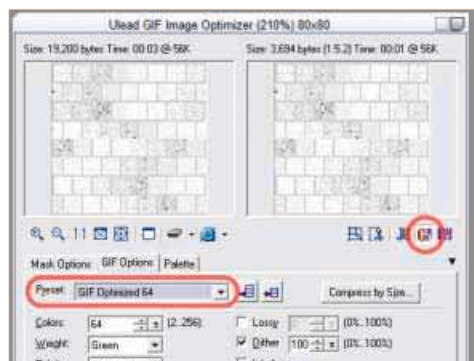
04 BACKGROUND HUE
The list of background types provides a range of options to further modify the appearance of your final image and click on the Edit button to change the colour scheme, if required. We've used a subtle grey effect so as not to detract from the images contained within the actual pages.



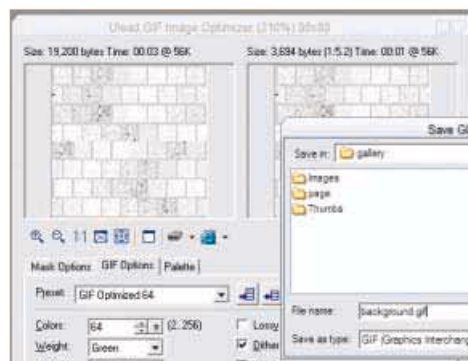
05 FINAL SETTINGS
The final options cover the sharpness of the pattern through Frequency and the number of tiles used with Density. Amplitude controls the contrast between light and dark areas while the Darken or Lighten commands are fairly self-explanatory. Experiment to find your preferred balance.



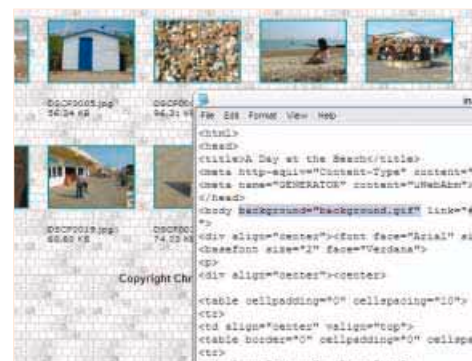
06 CREATE THE TILE
Once you're happy with the results, click OK and PhotolImpact will generate the image which you can now save specifically for use on the web through the software optimisation controls. To access these, choose File → Save For Web → Entire Image to prompt the Image Optimiser tool.



07 IMAGE OPTIMISATION
The tile will better suit the GIF format so choose this from the options available to the right of the dialog box. As the number of colours involved should be fairly low use the Preset option to choose the GIF Optimised 64 option before clicking the Save As button.



08 SAVE FILE
Save the file as 'background.gif' within your existing gallery pages. You need to make sure that this is included within the folder structure of your previously created gallery, otherwise it will be impossible to reference the file when the pages are finally uploaded.



09 HTM WHAT?
To embed the image into the pages, open each of the HTML pages within your gallery and include the code, background="background.gif", within the <body> tag, as shown above. Save the file and view it in the browser to see the final results.

EXPERT TIP

CHRIS SCHMIDT'S
PHOTOIMPACT TIPS

RELATIVE LOCATION

In the final step we've added the code to embed the image into the page with the assumption that the image is in the same folder as the referencing HTML page. This is fine for the index page but for subsequent pages you'll need to add "../" (without the quotes) before the filename as the image is contained in the folder above in the file structure. This is necessary as the image is referenced by its location in relation to page. This is known as its relative location in contrast to entering the entire address such as www.mysite.com/graphics/background.gif, for example, which would be considered an absolute location.

UPGRADE!

ULEAD PHOTOIMPACT XL
Total Image Editing for the PC. If you liked version 6, why not upgrade your copy to Ulead PhotolImpact XL? It's £31.99 for the download version, and £38.78 for the boxed version. New features include:

- Three Bonus programs, including Ulead Photo Explorer 8, GIF Animator 5, and COOL 360 for panorama creation (total separate value: £90).
- Create photo slideshows to burn onto CD and play in DVD players.
- Professional camera filters (lens distortion, zoom blur, star, diffuse glow) to apply lens techniques without expensive lenses.
- New ExpressFix tool to fix common photo problems, such as colour, unbalanced exposure and out-of-focus.
- Complete set of web tools for file size optimisation, JavaScript menus and slideshows, image mapping and slicing, plus more.

For full product information and upgrade details, please visit www.ulead.co.uk/pi/runme.htm

NEXT MONTH

BANNERS

How to create a banner image to add to the head of our design



PictureMan 3.1 (PC)

FREE
on this month's
coverdisc!

Develop a new way of working with photos using this powerful image processing, editing and retouching tool

PictureMan is an extremely quirky but rewarding image editor from Russia. It comes with all the usual filters, effects, and other tools you expect to find in a modern image editor, but also has full CMYK separation and a custom scripting language. PictureMan's drawing tools aren't much to shout about. If you're looking for subtle vector drawing tools, you've come to the wrong place, but if you just

want to apply effects and filters to your photos then PictureMan is ideal. There are 50 or so filters and effects available, and each can be applied to the entire image or to specific channels, which is especially useful when applying sharpening filters.

Once you've experimented with the filters and you've discovered a range of subtle effects that can improve most photos, you can define a script to automate them.

Scripting commands ensures you don't forget to apply any of your regulars, but it also enables you to apply them with the lightest of touches. Imagine, for instance, you've downloaded a hundred or so photos from your camera in one go, and you'd like to apply five or six filters to them with different channels and settings - you just wouldn't bother, would you? Script it once, however, and you can filter every picture with a single click.

PICTURE MAN KEY DETAILS

PUBLISHER
Stoik Imaging

PRODUCT STATUS
Full product

CONTACT
support@stoik.com

SERIAL NUMBER INFO
www.stoik.com/
registerpm31

SKILL LEVEL

3

TIME TO COMPLETE
30 MINUTES

GET TO GRIPS WITH PICTUREMAN

Set up PictureMan and explore its photo processing options



01 CUSTOMISE THE INTERFACE

The first thing you'll want to do before you start using PictureMan is to gear its interface towards the kinds of operations you're likely to perform. Choose Configure Tool Bar from the Options menu, and add all the filters you expect you'll need to the right-hand pane.



02 CALIBRATE YOUR MONITOR

PictureMan comes with a built in monitor colour calibration utility. If you've never calibrated your display for print, select Monitor Gamma from the View menu, then adjust the sliders so that the central squares of colour disappear.



03 APPLY A FILTER

Load an image into Picture Man, then choose your filter from the toolbar you created in step 1. Adjust the options as required (click the ? if you want a brief description of the settings) then click Apply to filter the entire image.



04 FILTER SELECTIVELY

If you want to filter channels independently, choose a channel from the Insert result list box, such as brightness or saturation only, then apply it. Press Ctrl + Z to undo if the effect is undesirable.



05 WRITE A SCRIPT

Select Macros from the Special menu and click the Script Window button. Click the Write mode! menu, then perform the effects you want to automate. Click Save on the Script menu when you've finished.



06 RUN YOUR SCRIPT

Open a new image and reopen the Script window. Select Open from the Script menu, choose your script, then click Run and wait while the processes are carried out.

EXPERT TIP



STEVEN RAYNES'
PICTURE MAN TIPS

GRAHAM FILTER

This oddly named filter enhances the quality of an image background by smoothing it while leaving sharp edges untouched. It's good at removing specks of noise from images, but it can also be used to dissolve JPEG artefacts from compressed photos.

FocusFixer 1.0 – full version

FREE
on this month's
coverdisc!

Bring out the best in your photographs with FocusFixer, a full Photoshop plug-in worth \$50...

It's all too common to pick up your photographs from developers and be dismayed at the out of focus results. While out of focus areas can be a deliberate artistic effect when you're aiming to produce depth of field, you may still

find that some details you would have preferred to keep have been lost. With the careful use of FocusFixer from FixerLabs, most of this detail can be recovered.

FocusFixer provides an effective way to restore images that are out of focus. The techniques it uses are

processor-intensive yet they are simple to control, with only a single slider used to control its effects. While FocusFixer can't perform miracles with your images, it can certainly rescue many of those photographs that would otherwise have ended up in your bin. ■

USING FOCUSFIXER 1.0

See how you can rescue your blurred photos with this plug-in...



01 FUZZY PHOTO
On this out-of-focus bird image, the Lasso tool is used to select the outline and feathering is set to six pixels. Now we can make use of the single slider in FocusFixer to sharpen the image.



02 ADJUST THE SHARPNESS
With the slider all the way to the left, the bird will look too soft, while artifacts appear if it's too far to the right. Careful positioning enables us to get the level of sharpness required with ease.



01 PREVIEW THE EFFECTS
A preview window enables you to see the effects of FocusFixer's slider effects, meaning you can experiment and find the ideal balance between sharpness and picture clarity.



02 USE THE ZOOM TOOL
Simply position the slider where the focus is clearest to make the most of your images. There are also Zoom tools so you can get a close-up view to see how sharp your image is.

**WORTH
\$50!**

EXPLAINED

INSTALLING AND UPGRADING

To install this plug-in, simply click on the Install button on the CD interface and select your Photoshop Plug-ins folder. To unlock the full version of this software, you will need to register online at the following site: www.fixerlabs.com/offers/3313353637.html.

The demo of FocusFixer 1.1 is also on this month's cover CD, and if you are impressed by the improvements it offers, you may want to upgrade to the latest version of the software. It costs \$45 and is available from: www.fixerlabs.com/offers/1825133973.html.

Making antique mounts

If you're restoring an old family photograph, then why not go the distance and include a traditional-style photographic mount? Tim Daly looks at an easy way to frame an image

WEB LINKS

PHOTOSHOP FRAMES BY SAGE

www.photoshop.brushes.btinternet.co.uk/Abstract.shtml

Scalable, decorative mounts and edges for your portraits.

MAKE YOUR OWN PHOTOSHOP FRAMES

www.insidegraphics.com/photoshop/photoshop_frame_tutorials.asp

Good ideas and plenty of tips on this useful site.

PHOTOSHOP EDGES AND FRAMES

www.insidegraphics.com/photoshop/photoshop_frame_tutorials.asp

Good online resources are available at the Graphics Software site.

Back in the days when family portraits were photographed and presented as a treasured object, elaborately designed mounts were used to frame the image. Yet, since the birth of the mass-market appeal of the medium in the 1850s, there's been a steady decline in the status of the photo print.

Now, with the advantage of digital technology, you can mix and merge your own images with historic frames, without using a mount cutter. Old photographic albums are a fantastic source of decorative frames – they can be easily scanned, cleaned and used in a montage with your own images, and printed out on the same sheet of paper.

Old mounts and album leaves are often in a poor condition, with the signs of age showing as tears and rips. However, these imperfections can be repaired easily with the Clone Stamp tool until they look as good as new.

For this project, a single album mount was used as a starting point, but all the original colours were replaced with a more flattering palette. Don't be put off by the colour or quality of an original – think laterally about its potential.

Once it's scanned in, the mount can be manipulated and resized until it fits your exact requirements. Oval mounts, such as this example, are excellent for framing both contemporary and historical family images because they can be used to hid unwanted background detail. If your portrait image is floated underneath this layer, it can be nudged into place with the Move tool until it looks perfect. ■

Click on the mount layer and change its colour. Select the Colorize option in the Hue/Saturation dialog box, then move the Hue slider until your mount changes into a suitable colour



VINTAGE MOUNTS

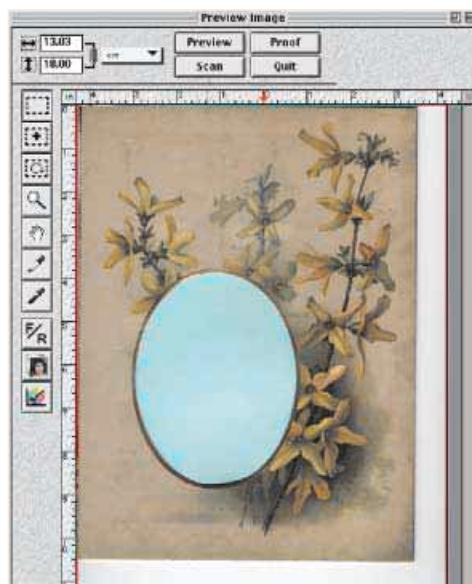
Here we're creating a decorative leaf mount. A sheet of bright blue card is used – it can be seen through the oval hole and it helps at the cutting-out stage

EXPERT TIP

**TIM DALY'S
PREPARATION TIPS**

PIXEL DIMENSIONS

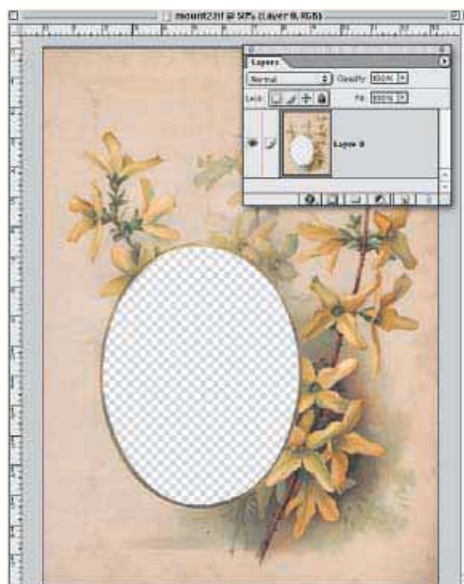
You need to prepare both mount and portrait image with the same resolution beforehand, or you'll be faced with two very different sized items. Although it's possible to scale a layer up or down in size, you'll get much sharper results if this is kept to a minimum. Always start off with more pixels than you really need, as discarding will lose less sharpness in the long run.



01

SCAN THE MOUNT

Set the scanner controls to capture at 200dpi and in RGB mode. Even if the mount is mainly a single colour or tone, it's better to capture in the RGB mode rather than Greyscale. After placing your mount on the scanner bed, place a sheet of brightly coloured paper or card on top of it, so that it shows through the aperture.



02

PREPARE THE MOUNT

Rename your background layer by double-clicking on the Layer icon and call it Layer 1. Select the Elliptical Lasso tool and draw an oval selection around the area you want to cut away. Use the Select+Transform Selection to fit it around your shape, then Edit+Cut to remove the unwanted bright, oval area.



03

INTRODUCE THE IMAGE

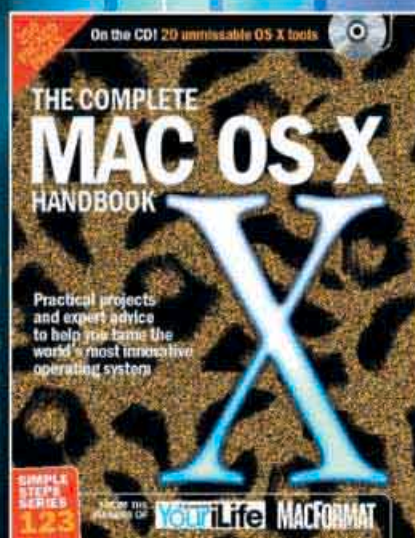
Prepare your original image. First make contrast and colour corrections, then go to Select+All, followed by Edit+Copy. Click back into the mount image window and do an Edit+Paste command. Drag the portrait layer beneath the mount layer. Alter the size and shape by using the Transform controls.



CONTACT US!
TIM DALY
www.dcmag.co.uk

THE COMPLETE HANDBOOKS

Improve your knowledge of the subjects that matter with our comprehensive collections of tutorials, projects and features



This issue

- ◆ Discover new OS X tools
- ◆ Create a digital hub
- ◆ Personalise your Mac
- ◆ Make your own movies
- ◆ Get expert advice

On the CD-ROM

- ◆ MyBusiness EasyBooks
- ◆ OpenOffice.org
- ◆ Hand-picked toolkits
- ◆ All your tutorial files



This issue

- ◆ Build a complete Web site
- ◆ Add JavaScript features
- ◆ Set up your own Web-based email service
- ◆ Learn XML, ASP, PHP and ActionScript

On the CD-ROM

- ◆ <oXygen XML> 1.2.2
- ◆ AceFTP 2 Pro
- ◆ Web Link Validator 2.1
- ◆ Webmerge 1.94



This issue

- ◆ Master techniques for retouching your photos
- ◆ Create complex montages
- ◆ Prepare online images
- ◆ Learn from the experts

On the CD-ROM

- ◆ Paint Shop Pro 8 trial
- ◆ Full programs worth £43
- ◆ Paint Shop Pro plug-ins
- ◆ Automatic photo-correction tools

Each issue gives you unbeatable coverage of its subject, with over 250 packed pages, plus a FREE CD-ROM

**SIMPLE
STEPS
SERIES
123**

**ON SALE NOW
EXCLUSIVELY FROM**

WHSmith

SUBJECT TO AVAILABILITY FROM SELECTED WH SMITH HIGH STREET STORES

Back issues

Missed an issue? Then order a copy now on **0870 444 8680**

**ONLY
£5.99
EACH!**

Price includes post & packing
to the UK only



**ISSUE 05
MARCH 2003**
Take better landscapes:
how to get maximum
impact with your
shots, from composition
to editing.



**ISSUE 06
APRIL 2003**
Get inspired by spring:
we reveal all you
need to take better
people, nature and
wildlife shots.



**ISSUE 07
MAY 2003**
100 photo tips: improve
your digital photography
skills with our expert
tips, tricks and advice.



**ISSUE 08
JUNE 2003**
■ **IN THE MAG** Take better portraits:
practical photography techniques in
composition and lighting explained.
● **ON THE DISCS** PhotoPlus 6.0,
Firegraphic 4.0, Easy Imager 1.0



**ISSUE 09
JULY 2003**
■ **IN THE MAG** Improve your holiday
photos: shoot great family portraits,
landscapes and street scenes.
● **ON THE DISCS** Eclipse RGB 3.1.5, Print
Pilot 1.1 SE, VTC Training, Pictal photos



**ISSUE 10
AUGUST 2003**
■ **IN THE MAG** Take better landscapes:
how to photograph summer skies,
woodland, seascapes, mountains...
● **ON THE DISCS** ACDSee PowerPack
3.1, PhotoXtra, video tutorials



**ISSUE 11
SEPTEMBER 2003**
■ **IN THE MAG** Capture great wildlife:
how to stalk wild animals, shoot
underwater and take pet portraits!
● **ON THE DISCS** ACD Fotoslate 2.0,
AnimatorDV, Photoshop and PSP videos



**ISSUE 12
OCTOBER 2003**
■ **IN THE MAG** Complete guide to better
group portraits: 31-page special on how
to photograph family, kids and friends.
● **ON THE DISCS** PhotoArtMaster,
Medi@Show 1.0, video tutorials



**ISSUE 13
NOVEMBER 2003**
■ **IN THE MAG** Shoot amazing sunsets:
massive guide to richer colours,
dramatic clouds and the best exposure.
Free 130-page Photoshop basics book.
● **ON THE DISC** PhotoImpact 6



**ISSUE 14
DECEMBER 2003**
■ **IN THE MAG** Collectors' issue: discover
the power of black & white. Essential
techniques and tips explained.
PLUS! Free memory card safe box
● **ON THE DISC** PhotoPhilia

NEW!

Get the mag in digital
format each month!
For more details see
our website or
www.zinio.com

Never miss out – 3 ways to subscribe...

1 Turn to page 94 for our special
Christmas offer: choose a free book
worth £12.99, or a 40% saving!

2 Visit our website at
www.dcmag.co.uk and subscribe
securely and quickly online

3 Call 0870 444 8680 with your
details and speak to one of our
customer advisors

5 steps to safe shopping

To prevent or handle the unlikely event of receiving faulty or damaged goods, why not follow our checklist below – you'll reduce whatever slight chance there is of problems:

1 CHOOSE YOUR SITE OR RETAILER

Overleaf, you'll find pages of camera retailers who offer competing prices and levels of service.

2 USE A CREDIT CARD

If you are buying goods worth more than £100 in total, use a credit card. This is because in the event of any problems, you are entitled to claim against the credit card company as well as the seller (you won't get your money back twice but the company is there to claim against if the seller has gone bust.) You might also get extra insurance, so check with your credit firm.

3 NEVER PAY IN CASH

If you can't pay by credit card, use a cheque or postal order instead. Don't send cash through the mail, even by registered post. Apart from the risk of theft, you can't stop payment if you need to, and it's impossible to prove how much you sent.

4 KEEP A RECORD

Keep records if you're paying by credit card over the phone. Print off web pages after you have entered your details on them. Keep notes of exact times and the name of the person who took your order, if you're paying by phone. Always keep your receipts.

5 DON'T USE A DEBIT CARD

Many debit cards don't have the protection or insurance options afforded to credit cards, so avoid using one.

OLYMPUS E-1

The long-awaited E-1 isn't just another digital SLR...

PAGE 116



PAGE
112



PAGE
114



PAGE
114

Buyers' guide

Turn the page for in-depth reviews of over 95 top digital cameras

How to use the Buyers' guide



Over the page, you'll find info on over 95 top products, all of which have been reviewed in Digital Camera Magazine. Once you've decided on the camera you want to buy, flick through our packed advertising section to find yourself the best deal on price and service.

To advertise in our Dealerbank section contact our sales team on 020 7317 2600 or email dcamclassifieds@futurenet.co.uk



Buyers' guide

£200 – £300

CANON POWERSHOT A300

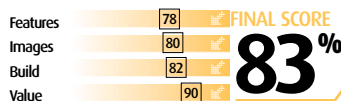
£200 | 3.2 megapixels | www.canon.co.uk



You can maybe get more for your £200 than this if you shop smartly, but the A300 still represents a good performance, quality and value

FULL REVIEW: issue 09

Sensor 3.2-megapixel, 1/2.7-inch 3.3MP CCD **Lens** Canon f3.6 fixed focal length **Focus** Auto, 5cm in macro mode **Exposure modes** Program AE Metering Evaluative, centre-weighted, spot **Monitor** 1.5-inch 67,000 pixels AE compensation +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow, red-eye **Video output** No **Movie recording** 640 x 480 at 15fps with sound **Other features** Stitch Assist panoramic mode Image storage CompactFlash **Batteries** 2x AA **Battery life** 75/210 shots LCD monitor on/off **AC adaptor** No **Weight** 175g (without battery or card) **Dimensions** 110mm(w) x 58mm(h) x 36.6mm(d) **Transfer** USB **Software** ImageBrowser EX, PhotoRecord, PhotoStitch **OS** Windows 98/Me, 2000 or XP, Mac OS9.0-9.2, OS X 10.1 or 10.2



HP PHOTOSMART 735

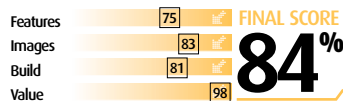
£200 | 3.2 megapixels | www.hp.com



One of the best entry-level cameras on the market right now. It's solid, well made and produces really good-looking shots

FULL REVIEW: issue 10

Sensor 3.2-megapixel, 1/1.2.7-inch 3.3MP CCD **Lens** Pentax f2.6-5.0 3x zoom **Focus** auto, macro **Exposure modes** Program AE, Scene modes **Metering** Averaged, spot **AE compensation** +/-2 EV in 0.5EV steps **Flash** auto, red-eye, on, off, night flash **Video output** PAL/NTSC **Movie recording** with sound (duration depends on card capacity) **Other features** Optional camera dock **Image storage** Internal, Secure Digital card **Batteries** 2xAA **AC adaptor** No **Weight** 235g (including batteries) **Dimensions** 105mm(w) x 46mm(h) x 71mm(d) **Transfer** USB interface **Software** HP Photo & Imaging software, HP Memories Disc **OS** Windows 98/Me, 2000 or XP, Mac OS9.1, OS X 10.1.5 or later



KONICA REVIO KD-310Z

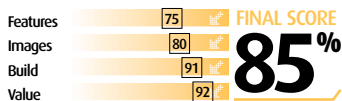
£250 | 3.2 megapixels | www.konicaeurope.com



Other 3-megapixels offer these features but its construction and build quality is out of the ordinary, and its startup time is breathtaking-FULL

FULL REVIEW: issue 10

Sensor 3.2-megapixel 1/1.8 inch 3.3MP CCD **Lens** Hexanon **Focus** auto, 10cm in macro **Exposure modes** Program AE **Metering** Centre-weighted, spot **Monitor** 1.5 inch **AE compensation** +/-1.5EV, 0.3EV increments **Flash** Auto, on, off, red-eye, night flash **Video output** No **Movie recording** 320 x 240 up to 15fps **Other features** Dual memory card formats **Image storage** SD card, Memory Stick **Batteries** Lithium-ion rechargeable, DR-LB4 **Battery life** 100/200 shots LCD monitor on/off **AC adaptor** Yes **Weight** 198g (without battery or card) **Dimensions** 94(w) x 56(h) x 29.5(d) mm **Transfer** USB **Software** Documentation only **OS** Windows 98, Me, 2000, XP, Mac OS 9, 0-9.2, OS X 10.1-10



OLYMPUS C-350Z

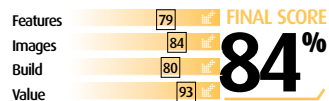
£250 | 3.2 megapixels | www.olympus.co.uk



£250 is a rock-bottom price for a 3-megapixel camera, and while it feels a little plasticky, it's solid, easy to use and produces great images

FULL REVIEW: issue 10

Sensor 3.2 megapixel 1/2.5-inch 3.3MP CCD **Lens** Olympus f3 1-5.2 3x zoom **Focus** auto, 20cm macro **Exposure modes** auto, program, scene modes **Metering** evaluation and spot **Monitor** 1.8 inch 85,000 pixels **AE compensation** +/-2EV, 0.5EV steps **Flash** auto, on, off, slow, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 240 at 15fps **Other features** 2 in 1, panoramic modes **Image storage** xD-picture card **Batteries** not quoted **Weight** 170g **Dimensions** 108mm (w) x 57.5mm (h) x 40mm (d) **Transfer** USB **Software** Olympus Camedia master 4.1 **OS** 9.0 or higher, OS X 10.1



NIKON COOLPIX 3100

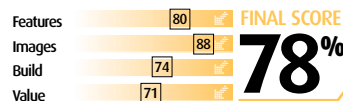
£280 | 3.2 megapixels | www.nikon.co.uk



Robust and reliable, with good image quality but if you're expecting class just because it's a Nikon, you'll be disappointed

FULL REVIEW: issue 10

Sensor 3.2-megapixel, 1/1.2.7-inch 3.3MP CCD **Lens** Zoom-Nikkor f2.8-4.9 3x zoom **Focus** auto, 4cm in macro mode **Exposure modes** Program AE, scene modes **Metering** multi-pattern **Monitor** 1.5-inch 110,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** auto, on, off, red-eye, **Video output** PAL/NTSC **Movie recording** 640 x 480 at 15fps **Image storage** Memory Stick **Other features** 4 Scene Assistance modes **Batteries** 2x AA or CR-V3 **AC adaptor** No **Weight** 150g (without battery or card) **Dimensions** 87.5mm(w) x 65mm(h) x 38mm(d) **Transfer** USB **Software** Nikon View Software **OS** Windows 98SE/Me, 2000 or XP, Mac OS9.0-9.2, OS X 10.1.3



PENTAX OPTIO 33L

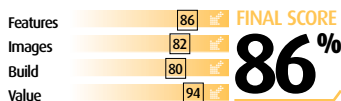
£280 | 3.2 megapixels | www.pentax.co.uk



A rather ungainly design but it takes very good pictures and incorporates more photographic features than you'd expect at this price

FULL REVIEW: issue 10

Sensor 3.2-megapixel 1/2.7-inch 3.3MP CCD **Lens** Pentax f2.6-5.0 3x zoom **Focus** Auto, manual, 10cm in macro **Exposure modes** Programmed AE, scene modes **Metering** Multi-segment, spot, centre-weighted **Monitor** 1.5 inch **AE compensation** +/-2EV, 0.3EV increments **Flash** auto, on, off, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 240 without sound **Other features** 3D mode Image storage compact flash **Batteries** 2 x AA or Lithium CR V3 **AC adaptor** No **Weight** 180g **Dimensions** 105(w) x 63(h) x 41.5 (d) mm **Transfer** USB **Software** ACDSee, ACD Photostitcher, Photos on CD **OS** Windows 98, Me, 2000, XP, Mac OS 8.6 or higher



PENTAX OPTIO 33WR

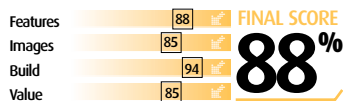
£300 | 3.2 megapixels | www.pentax.co.uk



The Optio 33WR hits the nail on the head in many, unexpected ways. The perfect family camera? Not a recognised market, but surely a crucial one...

FULL REVIEW: issue 15

Sensor 3.2MP, 1/2.7-inch 3.3MP CCD **Lens** Pentax f2.8-3.9 2.8x zoom **Focus** Auto, manual, 1cm in macro mode **Exposure modes** Program AE, scene modes **Metering** Multi-segment, centre-weighted, spot **Monitor** 1.6-inch, 84,000 pixels **AE compensation** +/-2EV in 0.3EV step **Flash** Auto, on, off, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 at 15fps with sound **Other features** Water-resistant design **Image storage** SD card **Batteries** 2x AA or 1x CR-V3 **Battery life** 125/540 shots (using alkalines/supplied disposable Lithium CR-V3 battery) **AC adaptor** No **Weight** 160g (without battery or card) **Dimensions** 81.5mm(w) x 76mm(h) x 30.5mm(d) **Transfer** USB **Software** ACDSee **OS** Win98/Me/2000/XP, Mac OS 8.6 or later



CASIO EXILUM EX S3

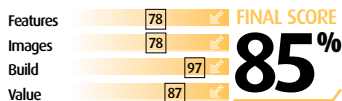
£300 | 3.2 megapixels | www.casio.co.uk



The Exilum's tiny dimensions bring compromises – namely, price and versatility – but its charm and convenience are perfect for taking snapshots

FULL REVIEW: issue 09

Sensor 3.2-megapixel, 1/1.8-inch 3.4MP CCD **Lens** f4.2 fixed focal length **Focus** Fixed focus, 80cm-infinity **Exposure modes** Program AE **Metering** Multi-pattern **Monitor** 2.0-inch 85,000 pixels AE compensation +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye **Video output** No **Movie recording** 320 x 240 with sound **Other features** Docking cradle, world clock and alarm **Image storage** 10MB internal, SD card slot **Batteries** Lithium-ion rechargeable, NP-20 **Battery life** 80 minutes/480 shots (continuous snapshots) **AC adaptor** Supplied **Weight** 61g (without battery or card) **Dimensions** 109mm(w) x 38.5mm(h) x 57mm(d) **Transfer** USB **Software** PhotoLoader, PhotoHands **OS** Windows 98/Me, 2000 or XP, Mac OS7.6.1-8.5, 8.6, 9, OS X 10.1 or 10.2



KODAK LS633

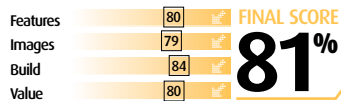
£300 | 3.1 megapixels | www.kodak.co.uk



There's a lot to like in the LS633: the build quality, punchy images and LCD. It is flawed though, with awkward controls and pricey tag

FULL REVIEW: issue 09

Sensor 3.1-megapixel, 1/1.8-inch 3.3MP CCD **Lens** Schneider-Kreuznach f2.7-4.6 3x zoom **Focus** Auto, 13cm in macro mode **Exposure modes** Program AE **Metering** Multi-pattern, centre-weighted, centre spot **Monitor** 2.2-inch 114,000 pixels AE compensation +/-2EV in 0.5EV steps **Flash** Auto, on, off, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 at 15fps **Other features** Optional camera dock **Image storage** 16MB internal, SD card slot **Batteries** Lithium-ion rechargeable **Battery life** 180 shots approx. **AC adaptor** Supplied **Weight** 210g (without battery or card) **Dimensions** 114mm(w) x 31mm(h) x 56mm(d) **Transfer** USB **Software** Kodak EasyShare software **OS** Windows 98/Me, 2000 or XP, Mac OS8.6 or 9.x, OS X 10.12 or later



CANON POWERSHOT A70

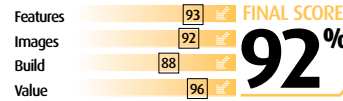
£300 | 3.2 megapixels | www.canon.co.uk



The PowerShot A70 is well made, well designed and easy to use. It's brimming with functions usually only found on far more expensive cameras

FULL REVIEW: issue 08

Sensor 3.2-megapixel, 1/2.7-inch 3.3MP CCD **Lens** f2.8-4.8 3x zoom **Focus** Auto, manual, 5cm (macro) **Exposure modes** Program AE, manual, Scene modes, aperture-priority, shutter-priority **Metering** Evaluative, centre-weighted, spot **Monitor** 1.5-inch 118,000 pixels AE compensation +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 240 + sound **Other features** Stitch Assist panoramic mode **Image storage** CompactFlash **Batteries** 4x AA **Battery life** 250/800 shots with LCD on/off **AC adaptor** No **Weight** 215g (no battery/card) **Dimensions** 101mm (w) x 64mm(h) x 31.5mm(d) **Transfer** USB **Software** ImageBrowser EX, PhotoRecord, PhotoStitch **OS** Windows 98/Me, 2000, XP, Mac OS9.0-9.2, OS X, 10.1 or 10.2



£300 – £380

MINOLTA DIMAGE S414

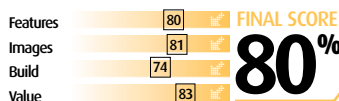
£300 | 4 megapixels
www.minolta.co.uk



A bit crude in places, the S414 takes good shots but isn't especially rapid. A camera you'd buy on price, rather than for its innate charm

FULL REVIEW: issue 13

Sensor 4-megapixel, 1/1.8-inch 4.1MP CCD **Lens** Minolta GT f3.0-3.6 4x zoom **Focus** Auto, manual, 10cm in macro mode **Exposure modes** Program AE, aperture-priority, manual **Metering** Multi-segment, spot **Monitor** 1.8-inch, 122,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow flash, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 at 15fps with sound **Other features** None **Image storage** CompactFlash **Batteries** 4x AAs **Battery life** 160 shots using 1850mAh NiMH cells, LCD on **AC adaptor** No **Weight** 335g **Dimensions** 113.5mm(w) x 64.5mm(h) x 58.5mm(d) **Transfer** USB **Software** DiIMAGE Viewer **OS** Windows 98/Me, 2000 or XP, Mac OS9.0-9.2.2, OSX 10.1.3-10.1.5, OS 10.2.1-10.2.2



KYOCERA FINECAM S5R

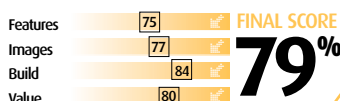
£300 | 5 megapixels
www.kyocera.co.uk



You buy a 5MP camera for the best possible detail rendition but the Finecam doesn't really deliver, and its control system isn't the best, either

FULL REVIEW: issue 14

Sensor 5-megapixel, 1/1.8-inch 5.3MP CCD **Lens** Kyocera f2.8-4.8 3x zoom **Focus** Auto, 12cm in macro mode **Exposure modes** Program AE, aperture-priority **Metering** Evaluative, centre-weighted, spot **Monitor** 1.6-inch, 70,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye **Video output** PAL or NTSC **Movie recording** 640x 480 30fps with sound **Other features** In-camera image resizing and trimming **Image storage** SD card **Batteries** Lithium-ion rechargeable BP1000S **AC adaptor** Yes **Weight** 180g **Dimensions** 92mm(w) x 57.5mm(h) x 33mm(d) **Transfer** USB **Software** Driver software only **OS** Windows 98/Me, 2000 or XP, Mac OS9.0-9.2, OSX 10.0-10.2



SONY DSC-P72

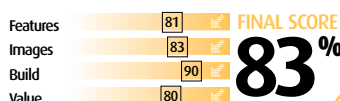
£300 | 3.2 megapixels
www.sony.co.uk



The Sony DSC-P72 is well made and well designed, and it does grow on you. And yet, for £300, we think you can do better

FULL REVIEW: issue 09

Sensor 3.2-megapixel, 1/2.7-inch 3.3MP CCD **Lens** Sony f2.8-5.6 3x zoom **Focus** Auto, manual, 10cm in macro mode **Exposure modes** Program AE, scene modes **Metering** Evaluative, spot **Monitor** 1.5-inch AE compensation +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow, red-eye **Video output** PAL or NTSC **Movie recording** 640 x 480 with sound **Other features** Smart Zoom **Image storage** Memory Stick **Batteries** 2x AA **Battery life** 300/500 shots LCD monitor on/off **AC adaptor** Yes **Weight** 259g (including batteries and Memory Stick) **Dimensions** 101.3mm(w) x 57.7mm(h) x 32.6mm(d) **Transfer** USB **Software** Image Mixer **OS** Windows 98/Me, 2000 or XP, Mac OS8.5.1-9.2, OSX 10.1 or 10.2



MINOLTA DIMAGE XT

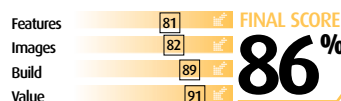
£330 | 3.2 megapixels | www.minolta.co.uk



The DiMAGE XT has a 'folded' light path to produce the slimmest digital camera yet. Results are good, operation is simple and the price tag modest.

FULL REVIEW: issue 10

Sensor 3.2-megapixel, 1/2.7-inch 3.3MP CCD **Lens** Minolta f2.8-3.6 3x zoom **Focus** Auto, 15cm to infinity **Exposure modes** Program AE **Metering** multi-segment **Monitor** 1.5-inch **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, night flash, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 240 at 15fps with sound **Other features** Non-extending lens **Image storage** Secure digital card **Batteries** Lithium-ion rechargeable, NP200 **AC adaptor** Yes **Weight** 120g (without battery or card) **Dimensions** 85.5mm(w) x 67mm(h) x 20mm(d) **Transfer** USB **Software** Minolta DiIMAGE Viewer **OS** Windows 98/Me, 2000 or XP, Mac OS9.0-9.2.2, OSX 10.1.3, 10.2.1



CANON DIGITAL IXUS 400

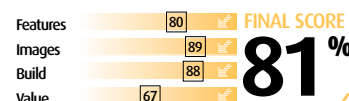
£349 | 4 megapixels
www.canon.co.uk



Lots of manufacturers are producing beautifully crafted, miniature cameras and the Ixus 400 isn't the only all-metal, pocket-sized on the market

FULL REVIEW: issue 08

Sensor 4-megapixel, 1/1.8-inch 4.1MP CCD **Lens** f2.8-4.9 3x zoom **Focus** Auto, manual, 5cm in macro **Exposure modes** Program AE **Metering** Evaluative, centre-weighted, spot **Monitor** 1.5-inch 118,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 240 + sound **Features** Stitch Assist panoramic mode **Image storage** CompactFlash **Batteries** Lithium-ion rechargeable, NB-11LH **Battery life** 190/440 shots LCD monitor on/off **AC adaptor** Supplied **Weight** 185g (no battery/card) **Dimensions** 87mm(w) x 57mm(h) x 27.8mm(d) **Transfer** USB **Software** ACDSee, Photos on CD **OS** ImageBrowser EX, PhotoRecord, PhotoStitch **OS** Windows 98/Me, 2000 or XP, Mac OS9.0-9.2, OSX 10.1 or 10.2



CASIO EXILIM EX-Z3

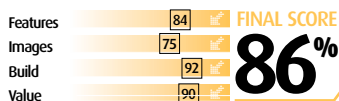
£350 | 3.2 megapixels
www.casio.co.uk



There's a lot to admire in this camera: Its size, huge LCD, Best Shot mode, speed, ease of use, and even its docking cradle/recharger...

FULL REVIEW: issue 08

Sensor 3.2-megapixel, 1/2.5-inch 3.3MP CCD **Lens** Pentax f2.6-4.8 3x zoom **Focus** Auto, manual, 6cm in macro mode **Exposure modes** Program AE, Scene modes **Metering** Multi-pattern **Monitor** 2-inch 85,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 without sound **Other features** Gradle/camera dock **Image storage** 10MB internal, SD card slot **Batteries** Lithium-ion rechargeable, NP-20 **Battery life** 450 shots (continuous snapshots) **AC adaptor** Yes **Weight** 126g (without battery or card) **Dimensions** 87mm(w) x 57mm(h) x 22.9mm(d) **Transfer** USB **Software** Photo Loader, Photo Hands **OS** Windows 98/Me, 2000 or XP, Mac OS9, 0-9.2, OSX 10.1



MINOLTA DIMAGE F200

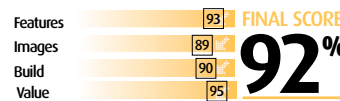
£350 | 4 megapixels
www.minolta.co.uk



If you're looking for a stylish 4-megapixel camera that offers more than just point-and-shoot photography, the F200 is unbeatable

FULL REVIEW: issue 10

Sensor 4-megapixel, 1/1.8-inch 4.1MP CCD **Lens** Minolta GT f2.8-4.7 3x zoom **Focus** Auto, 14.5cm in macro mode **Exposure modes** AE, Aperture-priority, Shutter-priority, Scene modes **Metering** DMulti-segment, centre-weighted, spot **Monitor** 1.5-inch, 110,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye, **Video output** PAL or NTSC **Movie recording** 320 x 240 at 15fps with sound **Other features** Automatic Digital Subject Program Selection **Image storage** SD Card **Batteries** 2x AA or CR-V3 **Battery life** 230/140 shots using CR-V3/NiMH cells **AC adaptor** No **Weight** 185g **Dimensions** 110mm(w)x52.5mm(h) x 32mm(d) **Transfer** USB **Software** DiIMAGE Viewer **OS** Windows 98/Me, 2000, XP, Mac OS9.0-9.2.2, OSX 10.1.3, 10.2.1



PANASONIC LUMIX DMC-F1

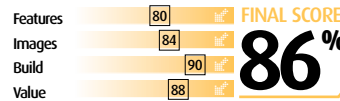
£350 | 3.2 megapixels
www.panasonic.co.uk



This handles surprisingly well given its small size, and the accessibility of the EV compensation and bracketing controls are especially good

FULL REVIEW: issue 10

Sensor 3.2-megapixel 1/2.5-inch 3.3MP CCD **Lens** Leica f2 8-4.9 3x zoom **Focus** auto, 10cm in macro **Exposure modes** Program AE, scene modes **Metering** Multi-pattern, spot **Monitor** 1.5-inch 114,000 pixels **AE compensation** +/-2EV, 0.3EV increments **Flash** auto, on, off, slow red eye **Movie recording** 20 x 240 at 10fps **Other features** Voice memos in record and playback mode **Image storage** SD **Batteries** Lithium-ion, CGA-S001E **Battery life** 120/150 shots LCD **AC adaptor** Yes **Weight** 160g without battery or card **Dimensions** 104mm(w) x 50.9mm(h) x 32.1mm(d) **Transfer** USB **Software** Arcsoft Software Suite, SD viewer **OS** Windows 98/Me, 2000, XP



PENTAX OPTIO S

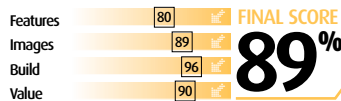
£350 | 3.2 megapixels
www.pentax.co.uk



Other 3-megapixels with similar specs cost £100 less, but this model is so beautifully made, and so tiny, that many will be happy to pay the extra

FULL REVIEW: issue 08

Sensor 3.2-megapixel, 1/2.5-inch 3.3MP CCD **Lens** Pentax f2.6-4.8 3x zoom **Focus** Auto, manual, 6cm in Super macro mode **Exposure modes** Program AE, 'scene' modes **Metering** Multi-pattern, centre-weighted, spot **Monitor** 1.6-inch **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye **Video output** PAL or NTSC **Movie recording** Yes **Other features** Panorama Assist and 3D modes **Image storage** 11MB internal, SD card slot **Batteries** Lithium-ion rechargeable, D-L18 **Battery life** 160 shots (LCD on) **AC adaptor** Supplied **Weight** 98g (without battery or card) **Dimensions** 83mm(w) x 52mm(h) x 20mm(d) **Transfer** USB **Software** ACDSee, Photos on CD **OS** Windows 98/Me, 2000, XP, Mac OS9.x, 10.1 or later



OLYMPUS MJU 400

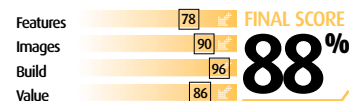
£380 | 4 megapixels
www.olympus.co.uk



In a word, design. It's small, smooth, and pocketable. It's robust, practical and easy to use. What's more, it's image quality is very good indeed

FULL REVIEW: issue 13

Sensor 4-megapixel, 4.2MP CCD **Lens** Olympus f3.1-5.2 3x lens **Focus** Auto, 20cm in macro mode **Exposure modes** Program AE, scene modes **Metering** Digital ESP, (multi-pattern), spot **Monitor** 1.5-inch 134,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye, slow **Video output** PAL or NTSC **Movie recording** 320 x 240 at 15fps **Other features** 2 in 1 and panoramic modes **Image storage** xD-Picture Card **Batteries** Lithium-ion rechargeable, LI-10B **Battery life** Not quoted **AC adaptor** Yes **Weight** 165g (without battery or card) **Dimensions** 99mm(w) x 56mm(h) x 33.5mm(d) **Transfer** USB **Software** Olympus Camedia Master 4.1 **OS** Windows 98/Me, 2000 or XP, Mac OS9.0 or higher, OSX 10.1



£400 – £600

KODAK DX6490

£400 | 4 megapixels
www.kodak.co.uk

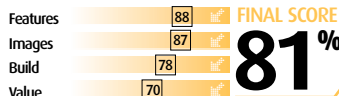


TURN TO
PAGE 40 FOR
FULL REVIEW

Kodak's good at designing inexpensive snapshot cameras for beginners. But when it comes to more advanced markets, it's another story

FULL REVIEW: issue 15

Sensor 4MP, 1/2.5-inch 4.1 MP CCD **Lens** Schneider-Kreuznach Variogon f2.8-3.7 10x zoom **Focus** Auto, 12cm in macro mode **Exposure modes** Program AE, ap-priority, shutter-priority, manual, scene **Metering** Multi-pattern, centre-weighted, spot **Monitor** 2.2-inch, 153,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 at 24fps with sound **Other features** EasyShare **Image storage** 16MB internal memory, SD card **Batteries** lithium-ion rechargeable, KLIC-5001 **Battery life** 126-210 shots **AC adaptor** Yes **Weight** 310g (no battery/card) **Dimensions** 99.6mm(w) x 79.9mm(h) x 81.2mm(d) **Transfer** USB **Software** Kodak EasyShare **OS** Win98/Me/2000/XP. Mac OS 8.6 or 9.x, OS X 10.1.2



HP PHOTOSMART 935

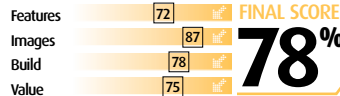
£400 | 5.1 megapixels
www.hp.com/uk/create



A plain and simple camera that does exactly what it sets out to but it'll need discounting to make it more attractive that its premium-brand rivals

FULL REVIEW: issue 12

Sensor 5.1MP, 1/1.8-inch 5.3MP CCD **Lens** Pentax f2.6-4.8 3x zoom **Focus** Auto, 14cm in macro mode **Exposure modes** Program AE, aperture-priority **Metering** Centre-weighted, spot **Monitor** 1.6-inch, 85,000 pixels **AE compensation** +/-3EV in 0.5EV steps **Flash** Auto, on, off, slow flash, red-eye **Video output** Via optional docking station **Movie recording** with sound (duration depends on card capacity) **Other features** Optional docking station **Image storage** SD card **Batteries** 2x AA **AC adaptor** No **Weight** 230g (without battery or card) **Dimensions** 97mm(w) x 45mm(h) x 67mm(d) **Transfer** USB **Software** HP Photo & Imaging software, Memories Disc **OS** Windows 98/Me, 2000 or XP. Mac OS 9, OS X 10.1.5 or later



FUJIFILM FINEPIX S5000

£430 | 3 megapixels
www.fujifilm.co.uk

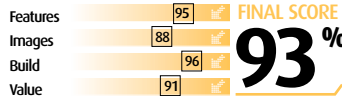


BEST
BUY

Fuji's ultra-zoom is compact and clever, although not perfect. We've yet to be convinced of the miniaturised HR CCD, but the differences are subtle

FULL REVIEW: issue 14

Sensor 6MP, 1/1.7-inch 6.2MP SuperCCD **Lens** Fujinon f2.8-3.1 10x zoom **Focus** Auto, manual, 10cm in macro mode **Exposure modes** Program AE, aperture-priority, shutter-priority, manual, scene modes **Metering** Multi-pattern (64-segment), average, spot **Monitor** 1.5-inch, 114,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow flash, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 at 30fps with sound **Other features** Lens hood/adaptor included **Image storage** xD Picture Card **Batteries** 4x AA **AC adaptor** No **Weight** 337g **Dimensions** 112.7mm(w) x 81.1mm(h) x 79.3mm(d) **Transfer** USB **Software** FinePix Viewer, ImageMixer VCD, RAW File **OS** Win98/Me/2000/XP. Mac OS 8.6-9.2.2, OS X 10.0.4-10.2.4



OLYMPUS C-750UZ

£450 | 4 megapixels
www.olympus.co.uk

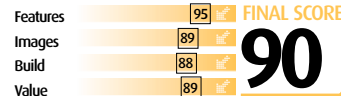


BEST
BUY

Strong, robust, versatile and capable of extremely good results, the Olympus's only real failing is in minor details like sluggish zooming

FULL REVIEW: issue 14

Sensor 4-megapixel, 1/2.5-inch 4.2MP CCD **Lens** Olympus f2.8-3.7 10x zoom **Focus** Auto, manual, 7cm in macro mode, 3cm in Super Macro mode **Exposure modes** Program AE, aperture-priority, shutter priority, manual, scene modes **Metering** Digital ESP, multi-pattern (8 segments), spot **Monitor** 1.5-inch, 114,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 at 15fps with sound **Other features** Super Macro mode **Image storage** xD Picture card **Batteries** 4x AA (NiMH cells/charger supplied) or 2x CR-V3 **AC adaptor** Yes **Weight** 305g **Dimensions** 107.5mm(w) x 66mm(h) x 68mm(d) **Transfer** USB **Software** Camedia Master 4.1 **OS** Win98/Me, 2000 or XP. Mac OS 9, OS X 10.1



SONY CYBERSHOT DSC-P10

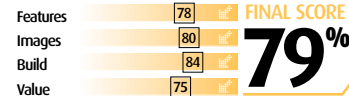
£450 | 5 megapixels
www.sony.co.uk



It's neat and nice to use, but it's not exceptional. You can get the same performance and capabilities elsewhere for less money

FULL REVIEW: issue 12

Sensor 5-megapixel, 1/1.8-inch 5.3MP CCD **Lens** f2.8-5.6 3x zoom **Focus** Auto, manual, 10cm in macro mode **Exposure modes** Program AE, Scene modes **Metering** Multi-pattern, spot **Monitor** 1.5-inch, 123,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow flash, red-eye **Video output** PAL or NTSC **Movie recording** 640 x 480 at 16fps with audio **Other features** Optional 3:2 aspect ratio **Image storage** Memory Stick **Batteries** Lithium-ion rechargeable, NP-FC11 **AC adaptor** Yes **Weight** 206g (including battery or card) **Dimensions** 108mm(w) x 51.5mm(h) x 35.8mm(d) **Transfer** USB **Software** Pixela Image Mixer **OS** Windows 98/Me, 2000 or XP. Mac OS 8.5.1, 8.6, 9.0, 9.1, 9.2



FUJIFILM FINEPIX F700

£500 | 6 megapixels
www.fujifilm.co.uk

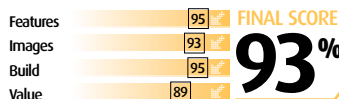


BEST
BUY

The extended dynamic range isn't this camera's only merit. It's also an extremely well-made, well-designed camera that's a pleasure to use

FULL REVIEW: issue 13

Sensor 6-megapixel, 1/1.7-inch 6.2MP SuperCCD SR **Lens** Super EBC Fujinon f2.8 3x zoom **Focus** Auto, 9cm in macro mode **Exposure modes** Program AE, aperture-priority, shutter priority, manual, scene modes **Metering** Multi-pattern, average, spot **Monitor** 1.8-inch, 134,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow flash, red-eye **Video output** PAL or NTSC **Movie recording** 640 x 480 at 30fps with sound **Image storage** xD-Picture Card **Batteries** Lithium ion rechargeable (NP 40) **Battery life** 135/270 shots LCD on/off **AC adaptor** Yes **Weight** 170g (without battery or card) **Dimensions** 108mm(w) x 54mm(h) x 28mm(d) **Transfer** USB **Software** FinePix Viewer, ImageMixer VCD, RAW File Converter LE **OS** Windows 98/Me, 2000 or XP. Mac OS 8.6-9.0, OS X



SONY MAVICA CD-500

£550 | 5 megapixels
www.sony.co.uk

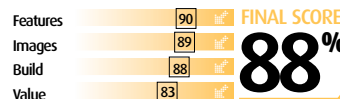


TURN TO
PAGE 42 FOR
FULL REVIEW

Price, performance and photographic control are all surprisingly competitive. The only drawback to its unique storage system...

FULL REVIEW: issue 15

Sensor 5MP, 1/1.8-inch 5.3MP CCD **Lens** Carl Zeiss Vario Sonnar f2.0-2.5 3x zoom **Focus** Auto, manual, 4cm in macro mode **Exposure modes** Program AE, aperture-priority, shutter-priority, manual, and scene modes **Metering** Multi-pattern, centre-weighted, spot **Monitor** 2.5-inch, 123,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow, red-eye **Video output** PAL or NTSC **Movie recording** 640 x 480 with sound **Image storage** 8cm CD-R/CD-RW **Batteries** Lithium-ion rechargeable, NP-FM50 **Battery life** 220 shots/110 minutes **AC adaptor** Yes **Weight** 606g (inc battery and disc) **Dimensions** 138.5mm(w) x 95.7mm(h) x 103.1mm(d) **Transfer** USB **Software** Pixela ImageMixer **OS** Win98/Me/2000/XP. Mac OS 8.5.1, 8.6, 9.0-9.2



SONY DSC-V1

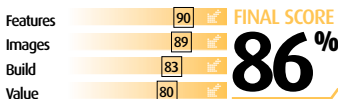
£550 | 5 megapixels
www.sony.co.uk



A good camera but its design and handling make it more fiddly to use than it should be. Its rivals are just too good in comparison

FULL REVIEW: issue 12

Sensor 5-megapixel, 1/1.8-inch 5.3MP CCD **Lens** Carl Zeiss Vario Sonnar f2.8-4.0 4x zoom **Focus** Auto, manual, 10cm in macro mode **Exposure modes** Program AE, aperture-priority, shutter-priority, manual, scene modes **Metering** Multi-pattern, spot **Monitor** 1.5-inch, 123,000 pixels **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, slow flash, red-eye **Video output** PAL or NTSC **Movie recording** 640 x 480 at 16fps with sound **Other features** NightFraming/NightShot infrared **Image storage** Memory Stick **Batteries** Lithium-ion rechargeable, NP-FC11 **AC adaptor** Yes **Weight** 298g (inc. battery and card) **Dimensions** 99mm(w) x 65.2mm(h) x 56.9mm(d) **Transfer** USB **Software** Pixela Image Mixer **OS** Windows 98/Me, 2000, XP. Mac OS 8.5.1, 9.0, 9.1, 9.2



PENTAX OPTIO 550

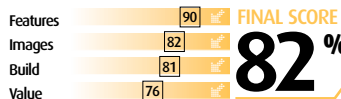
£550 | 5 megapixels |
www.pentax.co.uk



Good value in terms of features and its 5x optical zoom is tempting but its design and handling don't match up to that of its closest rivals

FULL REVIEW: issue 10

Sensor 5-megapixel 1/1.8-inch 5.3MP CCD **Lens** Pentax f2 8-4.6 5x zoom **Focus** auto, manual, 15cm macro, 2cm super macro mode **Exposure modes** Programmed AE, aperture priority, shutter priority, manual, Scene modes **Metering** Multi-segment, centre-weighted, spot **Monitor** 1.5-inch AE compensation +/-2EV, 0.3EV steps **Flash** auto, on, off, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 420 with sound **Other features** Panoramic and 3D modes **Image storage** SD card slot **Batteries** Lithium-ion rechargeable D-117 **AC adaptor** Yes **Weight** 205g (without battery and card) **Dimensions** 100mm(w) x 59mm(h) x 39.5mm(d) **Transfer** USB **Software** ACDSee, ACD Photostitcher, Photos on CD **OS** Windows 98, Me, 2000, XP. Mac OS 8.6 or later



NIKON COOLPIX 5400

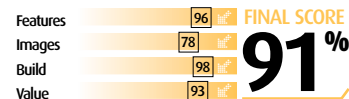
£600 | 5.1 megapixels
www.nikon.co.uk



A brilliant design and build, although the Coolpix 5400 is let down a little by its inconsistent image quality – it's just not as sharp as some of its rivals

FULL REVIEW: issue 12

Sensor 5.1-megapixel, 1/1.8-inch 5.3MP CCD **Lens** f2.8-4.6 4x zoom **Focus** Auto, manual, 1cm macro **Exposure modes** Program AE, shutter-priority, scene modes, manual, aperture priority **Metering** Matrix, centre-weighted, spot, AF spot **Monitor** 1.5-inch, **AE compensation** +/-2EV in 0.3EV steps **Flash** Auto, on, off, night flash, second-curtain slow sync, red-eye **Video output** PAL or NTSC **Movie recording** 640 x 480 at 15fps with sound **Other features** Flip-out swivelling LCD **Image storage** CompactFlash **Batteries** Lithium-ion rechargeable, EN-EL1 **AC adaptor** Yes **Weight** 320g (without battery or card) **Dimensions** 108mm(w) x 73mm(h) x 69mm(d) **Transfer** USB **Software** Nikon View, Elements 2 **OS** Win98SE, Me, 2000, XP. Mac OS 9.0-9.2, OS X 10.1.2



PLXmania.com

N°1 IN EUROPE | UNBEATABLE PRICES | PERMANENT STOCK

Canon Digital Ixus i

£300 **£236**

4.0 Megapixels
5.7x Digital Zoom
Weight: 100g
32 MB SD card included



Pentax Optio 555

£467 **£398**



Sony Cyber-shot DSC-P92

£320 **£244**



Casio Exilim EX-Z4

£367 **£308**

▶ Free 2 Year Warranty

▶ 100% Secure Payment



▶ Online Order Tracking

▶ Next-Day Delivery **DHL**

▶ Easy to Order

By phone, national rate

Online: www.pixmania.com

Payment methods: Visa, Mastercard, Switch and Solo, Bank Transfer

▶ **08700 118 117**

£10 discount*
for all Digital Camera Magazine readers on all
our product lines by using the following
promotional code **DigicamDec03**

Pixmania is a FotoVista Company

All prices include VAT. Prices subject to change without notice. Please visit the website for the most up to date prices.

We are open Monday to Friday from 8:30 AM to 5 PM and Saturdays from 9 AM to 5 PM.

Pixmania - 187 rue du Chevaleret - 75013 Paris. *Get a £10 discount by telling us the following promotional code: DigicamDec03. Offer for orders over £150.

PX105330



Buyers' guide

£650 – £1,900

OLYMPUS CAMEDIA C-5050

£650 | 5 megapixels | www.olympus.co.uk

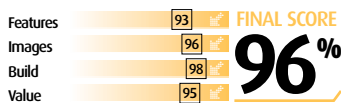


BEST BUY
DIGITAL CAMERA MAGAZINE

A classic Olympus shape with excellent finish, layout and design coupled with first rate results make the C-5050 the best in its class

FULL REVIEW: issue 06

Sensor 5.3-megapixel 1/1.8-inch CCD **Lens** Olympus f1.8-2.6 3x optical **Focus** auto, manual, macro, super-macro **Exposure modes** Programmed AE, aperture priority, shutter priority, manual, scene modes **Metering** digital ESP, spot, multi-spot **Monitor** 1.8-inch 114,000 pixels **AE compensation** +2/-2EV, 0.3EV increments **Flash** Auto, on, off, slow, slow 2nd curtain, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 240 at 15fps **Other features** multiple memory card slots **Image storage** x-D Picture Card, SmartMedia, CompactFlash **Batteries** 4x AA **AC adaptor** supplied **Weight** 380g **Dimensions** 115mm(w) x 80mm(h) x 70mm(d) **Transfer** USB **Software** Olympus CAMEDIA Master **OS** Windows 98, Me, 2000, XP, Mac OS 8.6-9.2.2, OS X 10.0.4 or higher



CANON POWERSHOT G5

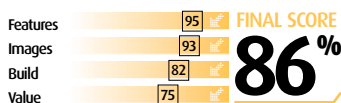
£680 | 5 megapixels
www.canon.co.uk



The image quality of the PowerShot G5 is fine and there's a good range of features, but the build and ergonomics are rather disappointing

FULL REVIEW: issue 12

Sensor 5 megapixels, 1/1.8-inch 5.3MP CCD **Lens** Canon f2.8-4.9 3x zoom **Focus** Auto, manual, 5cm macro **Exposure modes** Program AE, scene modes, aperture priority, shutter priority, manual **Metering** Evaluative, centre-weighted, average, spot **Monitor** 1.8-inch **AE compensation** +2/-2EV in 0.3EV steps **Flash** Auto, on, off, slow flash, red-eye **Video output** PAL/NTSC **Movie recording** 320 x 240 at 15sec with sound **Other features** Fold-out LCD **Image storage** CompactFlash **Batteries** Lithium-ion rechargeable, BP-511 **AC adaptor** Yes **Weight** 410g **Dimensions** 121mm(w) x 69.9mm(h) x 73.9mm(d) **Transfer** USB **Software** FileViewer, PhotoStudio, RemoteCapture, PhotoRecord, ZoomBrowser EX, PhotoStitch **OS** Win98, Me, 2000, XP, Mac OS9.0-9.2, OSX 10.1, 10.2



CONTAX TVS DIGITAL

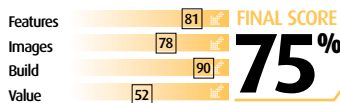
£800 | 5 megapixels
www.contaxcameras.co.uk



It's a prestigious brand but you can get some well made, well designed compacts for a lot less than this. Good but not good enough...

FULL REVIEW: issue 10

Sensor 5-megapixel, 1/1.8-inch, 5.3 MP CCD **Lens** Carl Zeiss Vario Sonnar T* f2.8-4.9 3x zoom **Focus** auto, manual, 15cm in macro mode **Exposure modes** Program AE, aperture priority, **Metering** multi-pattern, centre-weighted, spot **Monitor** 1.8 inch, 85,000 pixels **AE compensation** +2/-2EV, 0.3EV increments **Flash** Auto, on, off, night portrait, red eye **Video output** PAL/NTSC **Movie recording** 320 x 240 with sound **Other features** voice annotations and image resizing **Image storage** SD card **Batteries** Lithium-ion rechargeable **AC adaptor** Yes **Weight** 210g (without battery or card) **Dimensions** 112mm(w) x 66mm(h) x 33mm(d) **Transfer** USB **Software** Imaging software **OS** Windows 98/Me, 2000, XP, 2000 or XP, Mac OS 9.0-9.2, OSX



MINOLTA DIMAGE A1

£850 | 5 megapixels
www.minolta.co.uk

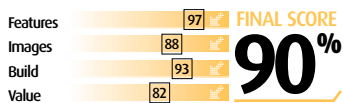


BEST BUY
DIGITAL CAMERA MAGAZINE

Some important new features, but a revamped favourite rather than an all-new camera. The A1 is a well-judged refinement of a classic design

FULL REVIEW: issue 14

Sensor 5-megapixel, 2/3-inch 5.3MP CCD **Lens** Minolta GT f2.8-3.5 7x zoom **Focus** Auto, manual, 13cm in macro mode **Exposure modes** Program AE, aperture-priority, shutter priority, manual, and scene modes **Metering** Multi-segment (300), centre-weighted, spot **Monitor** 1.8-inch, 118,000 pixels **AE compensation** +2/-2EV in 0.3EV steps **Flash** Auto, on, off, slow, red-eye **Video output** PAL or NTSC **Movie recording** 320 x 240 at 24fps with sound **Other features** Anti-shake system **Image storage** CompactFlash **Batteries** Lithium-ion rechargeable NP-400 **AC adaptor** Yes **Weight** 560g **Dimensions** 117mm(w) x 85mm(h) x 113.5mm(d) **Transfer** USB **Software** DIMAGE Viewer **OS** Windows 98/Me, 2000 or XP, Mac OS9.09.2.2, OSX 10.1.3-10.1.5, 10.2.1-10.2.5



CANON EOS 300D

£900 | 6.3 megapixels
www.canon.co.uk

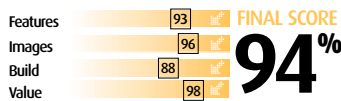


BEST BUY
DIGITAL CAMERA MAGAZINE

Other digital SLRs have pushed the price/performance envelope keenly enough. The EOS 300D, though, busts right through it

FULL REVIEW: issue 14

Sensor 6.3-megapixel, 22.7mm x 15.1mm 6.5MP CMOS chip **Lens** Tested with Canon EF5 18.55mm f3.5-5.6 **Focus** auto, manual, min 28mm **Exposure modes** Program AE, shutter priority, aperture priority, manual, scene modes **Metering** Multi-pattern (35-zone), centre-weighted, partial **Monitor** 1.8-inch, 118,000 pixels **AE compensation** +2/-2EV in 0.3EV steps **Flash** Auto, on, off, SlowSync, red-eye **Video output** PAL or NTSC **Movie recording** n/a **Other features** DEP depth of field mode **Image storage** CompactFlash **Batteries** Lithium-ion rechargeable BP-511 **AC adaptor** Yes **Weight** 560g body only **Dimensions** 142mm(w) x 99mm(h) x 72.4mm(d) **Transfer** USB **Software** Canon ZoomBrowser EX image thumbnail browser, Photoshop Elements 2



CANON EOS 10D

£1,400 | 6.3 megapixels
www.canon.co.uk

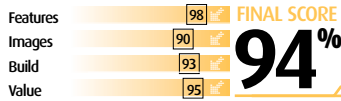


BEST BUY
DIGITAL CAMERA MAGAZINE

The EOS 10D is well made, fast, ergonomically sound and produces high-quality images. It's the obvious digital choice for EOS camera owners

FULL REVIEW: issue 09

Sensor 6.3-megapixel, 22.7mm x 15.1mm CMOS chip **Lens** No **Focus** Dependent on lens **Exposure modes** Program AE, aperture-priority, shutter-priority, manual, Scene **Metering** 35-zone evaluative, centre-weighted, spot **Monitor** 1.8" 118,000 pixels **AE compensation** +2/-2EV in 0.3EV steps **Flash** Auto, slow, red-eye **Video output** Pal **Other features** 3fps for 9 shots **Image storage** CompactFlash/MicroDrive **Batteries** Lithium-ion rechargeable, BP-511 **Battery life** 650 shots **AC adaptor** Yes **Weight** 790g **Dimensions** 149.5mm(w) x 106.5mm(h) x 75mm(d) **Transfer** USB **Software** FileViewer, RemoteCapture, ZoomBrowser EX, PhotoRecord, PhotoStitch, Photoshop 5.0LE **OS** Win 98/Me, 2000, XP, Mac OS8.6-9.2, OSX 10.1, 10.2



PENTAX *ist D

£1,400 | 6.1 megapixels
www.pentax.co.uk

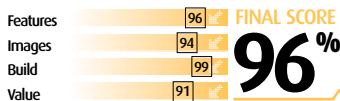


BEST BUY
DIGITAL CAMERA MAGAZINE

The Pentax *ist D isn't just a terrific camera to use, it produces very good results, too. At this price, only the Fuji FinePix S2 Pro is better – but only just

FULL REVIEW: issue 09

Sensor 6.1-megapixel, 23.7mm x 15.6mm 6.31MP CCD **Lens** Tested with Pentax 18-35mm f4-5.6 **Focus** Dependent on lens **Exposure modes** Program AE, shutter-priority, aperture-priority, hyper-manual **Metering** Matrix, centre-weighted, spot **Monitor** 1.8-inch, 118,000 pixels **AE compensation** +2/-2EV in 0.5 (default) or 0.3EV steps **Flash** Auto, on, off, slow sync, red-eye **Video output** PAL/NTSC **Movie recording** No **Other features** Custom camera functions **Image storage** Compact Flash **Batteries** 4x AA or 2x CRV-3 **Battery life** 450 shots (no flash, NiMH cells) **AC adaptor** Yes **Weight** 550g (without batteries or memory card) **Dimensions** 129mm(w) x 94.5mm(h) x 60mm(d) **Transfer** USB **Software** Pentax Photo Lab, Pentax Photo Browsers, RAW file converter **Windows** 98/Me, 2000 or XP, Mac OS 8.6 or later



OLYMPUS E-1

£1,820 | 5 megapixels
www.olympus.co.uk

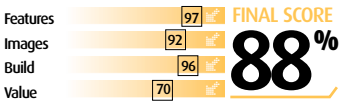


TURN TO PAGE 34 FOR FULL REVIEW

The E-1 looks pretty expensive, especially in the light of that 5-megapixel CCD. What's more its lenses and accessories carry hefty price tags, too

FULL REVIEW: issue 15

Sensor 5MP, 17.4mm x 13.1mm 5.5MP CCD **Lens** Tested with Olympus Zuiko 14-54mm, also available body-only **Focus** Auto, manual **Exposure modes** Program AE, shutter-priority, aperture-priority, manual **Metering** Multi-pattern ESP, centre-weighted, spot **Monitor** 1.8-inch, 134,000 pixels **AE compensation** +2/-2EV in 0.3EV or 0.5EV steps **Flash** No **Video output** PAL or NTSC **Movie recording** No **Other features** Exposure and white-balance bracketing **Image storage** CompactFlash **Batteries** Lithium-ion rechargeable BLM-1 **Battery life** Not quoted **AC adaptor** Yes **Weight** 660g body only **Dimensions** 141mm(w) x 104mm(h) x 81mm(d) **Transfer** USB 2.0, FireWire **Software** Olympus Viewer 1.0 **OS** WinMe/2000/XP, Mac OS 9.1-9.2.2, OS X 10.1.3, 10.2



REVIEW FOCUS

MAKE/MODEL	£	MP	ISSUE	SCORE
CANON				
POWERSHOT A40	£230	2	2	85%
POWERSHOT S50	£499	5	7	88%
POWERSHOT G3	£700	4	5	81%
DIGITAL IXUS V2	£329	2	3	75%
CASIO				
QV-5700	£600	5	4	84%
CREATIVE				
PC CAM 300	£85	0.3	2	82%
PC CAM 750	£110	0.3	2	75%
FUJIFILM				
@XIA SLIMSHOT	£80	0.3	1	82%
FINEPIX A101	£140	1.3	1	84%
FINEPIX A303	£280	3.2	4	87%
FINEPIX F402	£300	2.1	5	85%
FINEPIX F401	£400	2.1	1	84%
FINEPIX F601	£490	3.1	2	90%
FINEPIX S602 PRO	£700	3.1	6	90%
FINEPIX M603	£700	3	5	78%
HP				
PHOTOSMART 320	£150	2	2	90%
PHOTOSMART 720	£300	3.3	2	71%
PHOTOSMART 850	£400	4	6	72%
KODAK				
EASYSHARE DX4330	£300	3.1	2	63%
DX4330	£300	3.1	1	63%
KONICA				
KD-100	£100	1.3	2	67%
KD-400Z	£400	4	1	90%
KYOCERA				
FINECAM S5	£450	5	7	82%
MINOLTA				
DIMAGE F100	£400	3.95	2	86%
DIMAGE F300	£500	5	6	87%
DIMAGE 7i	£799	4.95	2	89%
DIMAGE 7Hi	£1,000	5	4	92%
MUSTEK				
GSMART MINIZ	£80	1.3	1	71%
NIKON				
COOLPIX 2500	£260	2	2	70%
COOLPIX 4300	£450	4	3	82%
COOLPIX 4500	£550	4	5	91%
COOLPIX 5700	£1,000	5	3	88%
OLYMPUS				
C-120	£170	2	2	75%
C-300 ZOOM	£300	3.3	2	90%
C-730	£445	3.2	4	88%
C-4000 ZOOM	£449	4	1	90%
C-50	£550	5	4	88%
C50-S0 ZOOM	£650	5	6	96%
MJU 300	£350	3.2	7	90%
PANASONIC				
LUMIX DMC-F7-S	£280	2	2	74%
LUMIX DMC-LC40	£470	4	3	82%
DMC-LC5	£600	4	2	89%
PENTAX				
OPTIO 430RS	£450	4	2	79%
PRAKTIKA				
DCZ 3.2	£300	1.3	1	75%
RICOH				
CAPLIO RR-30	£225	3.2	5	77%
CAPLIO G3	£250	3.2	8	79%
RDC-I500	£610	3.2	3	73%
SAMSUNG				
DIGIMAX 130	£130	1.3	2	83%
SIGMA				
SIGMA SD-9	£1,640	3.4	6	79%
SILIX				
STYLECAM BLINK	£40	0.3	1	73%
SONY				
DSC-U10	£200	1.3	1	85%
CYBER-SHOT DSC-P71	£300	3.2	2	90%
CYBER-SHOT DSC-P9	£430	4	2	86%
DSC-F717	£850	5	2	84%
TOSHIBA				
PDR-T20	£300	2	1	73%

ZOOM OFF FOR FREE
GET A FREE FLIGHT TO EUROPE
SEE WWW.NIKON.CO.UK/FLYTOEUROPE FOR DETAILS



Nikon Coolpix 2100
2.1 Mega Pixel CCD
& 3 X optical zoom

Bundle includes
 128Mb CF Sandisk card
 Ansmann Photocam charger
 & Lowepro D-Res 0M case

Price £209.00 inc VAT
(RRP £279.00)

great free stuff
free delivery
on orders over £100 (uk mainland)
free internet printing
free 2 year warranty
(terms and conditions apply)

cameras | camcorders | accessories | scanners | printers | internet printing

Sometimes looking for the right digital camera can make you feel like you're living on another planet. The Digital Camera Company can advise you on everything you want to know about buying a digital camera. We're owned by the oldest family run photographic company in the world, so we really know our stuff, and unlike most traders we have human beings to talk to when you call up.

Call 0870 224 7821 or go to www.digital-cameras.com

New opening times: Monday to Thursday 8.30am to 9pm, Friday 8.30am to 6pm and Saturday 10am to 4pm

the digital camera
company
 Simple Impartial Advice

WIN A CAR!



PURCHASE ANY JVC PRODUCT FROM ASK OR ASKDIRECT BETWEEN 12/11/03 & 14/01/04 & YOU COULD WIN A SMART CAR.

TERMS & CONDITIONS APPLY. SEE WEBSITE FOR FURTHER DETAILS. GOOD LUCK!

JVC

GR-D20
MDV CAMCORDER

£278



IN OUR OPINION, YOU CANNOT BUY A BETTER VALUE DIGITAL CAMCORDER AT THIS BARGAIN PRICE POINT!

Nikon
COOLPIX
2100
2MP DIGITAL STILL

£CALL

A REALLY GREAT QUALITY COMPACT WITH PIN-SHARP LENS!
BUY A COOLPIX 2100 & CLAIM A FREE RETURN FLIGHT TO 9 DESTINATIONS IN EUROPE! CLAIM BY 31/01/04

Nikon
COOLPIX
3100
3MP DIGITAL STILL

£CALL



BUY A COOLPIX 3100 & CLAIM A FREE RETURN FLIGHT TO 9 EUROPEAN DESTINATIONS!

OLYMPUS



MJU 300
3MP DIGITAL STILL

£CALL

WICKED WEATHERPROOF METAL BODIED MARVEL!
* ALSO AVAILABLE WITH MP3 AND AGG

GR-D200
MDV CAMCORDER

£479

JVC



HIGH RESOLUTION MEGAPIXEL CAMCORDER WITH BRIGHT F1.8 LENS FOR LOW LIGHT FILMING!
INCLUDES TWO FREE LORD OF THE RINGS DVDS BY REDEMPTION!

SONY

NEW!



DSC-P12
DIGITAL STILL

- 5MP, 2592x1944 res
- 3x Optical Zoom, 38-114mm
- USB 2.0, MemoryStick PRO

ASK RATED
1000000

£CALL

JUST LIKE THE DSC-P10 BUT WITH 2x BATTERIES & AN EXCLUSIVE LEATHER CASE!

DSC-P10
5MP DIGITAL STILL

ASK RATED
1000000



£CALL

- 5MP USB 2.0
- Carl Zeiss 3x Optical Zoom
- USB 2.0, Memory Stick PRO comp

THE MOST WANTED 5MP DIGITAL CAMERA! WHY? GREAT QUALITY, SOLID BUILD, CRAZY PRICE!



DSC-F828
8MP DIGITAL STILL

ASK RATED
1000000

£CALL

- 8 Megapixel Super HAD CCD
- Rotating Carl Zeiss T* lens system
- Memory Stick & CompactFlash card slots

"THE MOST IMPORTANT CAMERA THIS YEAR" THEY SAY. SHAME WE CAN'T LET YOU HAVE IT UNTIL JANUARY - PRE-ORDER YOURS NOW!

CALL US FOR THE BEST DEALS ON SONY!

Kodak

NEW!



DX6490
4MP DIGITAL STILL

ASK RATED
1000000

£334

- 4MP 2408x1708 max res
- 10x Optical zoom, 38-380mm
- User friendly EasyShare options

SAVE £50 WHEN YOU PURCHASE A PRINTER DOCK 6000 WITH A DX6490 OR LS633 - SEE WEBSITE FOR FURTHER DETAILS!

LS633
DIGITAL STILL

ASK RATED
1000000



£299

- 3MP 2041x1533 max res
- Huge 2.2" OLED display
- 165 degree viewing angle

THIS METAL BODIED MARVEL HAS THE BEST SCREEN WE'VE EVER SEEN ON A DIGITAL CAMERA!

Canon



MV600
MINI DV CAMCORDER

ASK RATED
1000000

£329

- 18x Optical, 360x Digital zoom
- 2.5" LCD, PCM Digital stereo
- Progressive Photo Button

AT THIS FANTASTIC PRICE THERE'S NO EXCUSE FOR NOT GETTING INTO THE MOVIES!

SONY



DCR-PC330
MINI DV CAMCORDER

NEW!

3MP MDV MODEL WITH SUPER SHARP CARL ZEISS T* LENS!

£WEB

DCR-IP1
MICROMV
CAMCORDER



NEW!

£CALL

INCREDIBLY COMPACT MICROMV MEGAPIXEL MARVEL!



RDR-GX7
DVD RECORDER

DVD RECORDER WITH SUPERB ONE TOUCH RECORD FROM CAMCORDERS WITH i.LINK! DVD-RW & DVD+RW RECORDING!

£CALL

DCR-TRV33
MDV CAMCORDER



NEW!

£CALL

TRULY OUTSTANDING AT THIS MID-RANGE PRICE POINT, THIS MDV MODEL DOES NOT DISAPPOINT!



DCR-DVD200
DVD CAMCORDER

NEW!

FREE DVP-PQ2
DVD PLAYER

WITH THE DCR-DVD200 & DCR-DVD100 MODELS!

£CALL

DCS-P72
3MP DIGITAL STILL



NEW!

£204

DYNAMITE PRICE, EXPLOSIVE PERFORMANCE!

ask

kamla

mcdonald

harp

askdirect

ASK, 248 TOTTENHAM COURT ROAD, LONDON

Digital Stills, Camcorders, Notebooks, LCD, Plasma, Home Cinema, Hi-Fi, GPS, MD, MP3 & Accessories

KAMLA, 251 TOTTENHAM COURT ROAD, LONDON

Digital Imaging, Photographic, Inkjet print solutions, Camcorders, Notebooks & Computer peripherals

MCDONALD, 70 OXFORD STREET, LONDON

Digital Stills, Photographic, Camcorders, Notebooks, Portable Audio, Micro Hi-Fi & Imaging Accessories

HARP, 237 TOTTENHAM COURT ROAD, LONDON

Digital Stills, Camcorders, Portable Audio, Micro Hi-Fi & Accessories for just about every product!

NEAREST TUBE TOTTENHAM COURT ROAD, FREE PARKING ON SUNDAYS

WE'LL DELIVER
UP UNTIL
CHRISTMAS EVE

020 7307 8321

LINES OPEN
MON-SAT
9am - 6pm

OLYMPUS

C-5060 WIDE
5MP DIGITAL

ECALL

ULTRA WIDE ZOOM & SERIOUS
SELECTION OF CREATIVE CONTROLS!

MINOLTA

DiMAGE A1
5MP DIGITAL SLR

ECALL

IF ITS SPEED YOU'RE AFTER, THIS
CAMERA BOASTS THE WORLD'S FASTEST AUTOFOCUS!

OLYMPUS

C-750
ULTRA ZOOM
4MP DIGITAL STILL

£357

POPULAR CAMERA WITH A WHOPPING 10x OPTICAL ZOOM!

PENTAX

OPTIO S4
4MP DIGITAL STILL

£357

INCREDIBLY COMPACT CUTIE LOADED WITH USEFUL
CREATIVE FEATURES!

SONY

DSC-U50 BLACK
2MP DIGITAL STILL

ECALL

WITH ITS ROTATING LENS, YOU TOO CAN BE PART OF
THE PICTURE!

PENTAX

*IST D
DIGITAL SLR

ECALL

GREAT QUALITY DIGITAL SLR WITH
INTERCHANGEABLE LENSES!

SONY

DSC-V1

5MP DIGITAL STILL



- 5MP, 2592 x 1944 Max res
- Carl Zeiss Vario Sonar lens
- 4x Optical, 4x Digital zoom
- Full manual control

ASK RATED



ECALL

CALL FOR LATEST PRICES!

WE ADORE THIS OUTSTANDING
CREATIVE DIGITAL COMPACT, &
SO DO THE CRITICS - IT'S WON TIPA & EISA AWARDS!WE CARRY A FULL RANGE OF SONY ACCESSORIES FOR
THIS PRODUCT, INCLUDING: VCL-DEH07V WIDE-ANGLE
LENS, MEMORY STICK & MEMORY STICK PRO CARDSWe'll deliver up until Christmas Eve, using
UPS, the most dependable service around!

ask

ASK - OUR FLAGSHIP SUPERSTORE - 2 FLOORS OF DIGITAL STILLS,
CAMCORDERS, VIDEO NOTEBOOKS, DVD, MP3, MINIDISC, LCD,
PLASMA, HOME CINEMA & HI-FI

248 TOTTENHAM COURT ROAD, LONDON

Large stocks available, with full range of compatible accessories
Central London retail outlets in Oxford Street & Tottenham Court Road
Over 100 staff to demonstrate products in-store
Our Website features secure on-line ordering
Dedicated & knowledgeable staff man our phones
Free UPS delivery with on-line order tracking!

WIN A
SMART
CAR!Purchase any JVC product from ASK
or AskDirect between 12th
November & 14th January, and
you'll get free entry into our fantastic
Win a JVC Smart Car competition!

Canon

DIGITAL IXUS i
DIGITAL STILLBUY IT IN
BLACK,
SILVER,
BRONZE,
OR WHITE

EWEB

QUITE SIMPLY THE SMALLEST
AND MOST DESIRABLE 4MP
CAMERA YET - I WANT I CANDY!DIGITAL IXUS 400
+ CP300 PRINTERAS SEEN
ON TV!

ECALL

ZOOM IN ON THE ACTION WITH THIS EVER
POPULAR 4MP CAMERA & PRINT DIRECT TO
THIS COOL MINI DYE SUB PRINTER!EOS-300D
DIGITAL SLR

EWEB

THE SLR FOR THOSE SERIOUS ABOUT
DIGITAL PHOTOGRAPHY!
CALL US FOR THE LENS DEAL THAT SUITS YOUPOWERSHOT
A80
DIGITAL STILL

ECALL

A BRILLIANT COMPACT 4MP CAMERA FOR NOVICES
OR SHUTTER NUTTERS!BUBBLEJET i965
2400 DPI PRINTER

EWEB

PICTBRIDGE SUPPORT ALLOWS YOU TO PRINT
DIRECTLY VIA USB FROM YOUR DIGITAL
CAMERA OR CAMCORDER!MVX10i
MOV CAMCORDER

ECALL

THIS CREATIVE CAMCORDER IS GREAT FOR MOVIES,
STILLS & EVEN PRINTS!MAIL
ORDER

020 7307 8321

LINES OPEN
MON-SAT
9am - 6pm



AWARD WINNER
BEST WEBSITE
OF THE
YEAR

AUTHORISED DEALERS OF ALL MAJOR BRANDS

CANON - DATAVIDEO - FUJI - GSE - HAHNEL - HAMA - HITACHI - HOLDAN - JVC - KODAK - MINOLTA - NIKON - OLYMPUS -
PANASONIC - PENTAK - ROLLIE - ROLLMASTER - SAMSUNG - SENHEISER - SHARP - SONY - VELBON - VIDEONICS - VIVANCO

CAMCORDER

Canon

FUJIFILM

SONY

ACCESSORIES

PANASONIC NV-MX500

- 800K Pixel CCD
- 16x Optical Zoom
- 160x Digital Zoom
- Built-In Flash
- 3.5" Intelligent LCD Monitor
- Sub Record Button
- Zoom Microphone

Typical Price £1,540.99 **£1,089.99**

DCR-PC105

- 2.5" touchpanel LCD screen
- 4x Optical Zoom
- Memory Stick Pro
- Super Shady & Night Shot
- Pop-up Flash Light
- 20x optical & 320x digital zoom

Typical Price £1,199.99 **£707.00**

JVC GR-DV4000

- Less Than 1/2 Price Kit Offer @ £299.99
- F1.2 Aspherical Super Bright Lens
- 1.33 SHS Megapixel CCD
- 3.5" LCD Colour Monitor
- Web-Camera Function
- DV Input/Output (i.LINK)
- 8 MB SD Memory Card incl

Typical Price £299.99 **£659.99**

PANASONIC DIGITAL CAMCORDER

VDR-M30 DVD RAM CAMCORDER...£674.95

NV-GS70.....EPHONE

NV-GS50 + Free Two DV Tapes.....£499.99

NV-GS40 + Free Two DV Tapes.....£454.95

NV-GS30 + Free Two DV Tapes.....£414.95

NV-DS65 + Free Two DV Tapes.....£385.95

NV-DS60 + Free Two DV Tapes.....£339.95

NV-VZ17.....£269.99

NV-VZ15 FreeCarryingCase+ Two Tapes.....£239.99

NV-RZ10 FreeCarryingCase, Two Tapes.....£189.99

SONY DIGITAL CAMCORDER

CCD-TRV218.....£239.99

DCR-DVD100.....EPHONE

DCR-DVD200.....EPHONE

DCR-IP220.....£1,109.00

DCR-IP55.....£995.95

DCR-IP1 NEW.....£924.99

DCR-PC103.....£569.95

DCR-TRV14.....£374.99

DCR-TRV19.....£402.95

DCR-TRV145.....£259.95

DCR-TRV22.....£469.95

DCR-TRV245.....£277.95

DCR-TRV250.....£317.95

DCR-TRV33.....EPHONE

DCR-TRV355.....£423.95

DCR-TRV80.....£854.95

DCR-TRV950.....£1,284.95

DCR-VX2000.....NEW LOWER PRICE

DSR-PD150P.....EPHONE

JVC DIGITAL CAMCORDER

GR-PD1 NEW.....EPHONE

GR-DV700 + 1/2 Price Kit Offer @ £29.99.....£479.99

GR-D20.....£274.95

GR-D20 KIT OFFER.....£304.99

GR-DX95.....£449.99

GR-DX25.....£349.99

GR-D50 + 1/2 Price Kit Offer @ £29.99.....£369.99

GR-D70 + 1/2 Price Kit Offer @ £29.99.....£329.99

GR-SXM49.....£232.99

GR-FXM39.....£217.99

GR-FX15.....£183.99

GR-SX25 SVHS-C.....£189.99

CANON DIGITAL CAMCORDER

DM-XL15.....EPHONE

MXV1501.....£637.95

MXV101.....£889.99

MV6001.....£399.99

MV600.....£322.99

V-75H.....£273.99

G-45Hi + Free tape.....£219.99

CP-100 Portable printer.....£159.95

POWERSHOT G5

- 5.0M Effective Pixels
- 4x Optical Zoom Lens
- Continuous movie recording & playback with audio up to 3 minutes long
- Hi capacity Li-ion rechargeable battery

Typical Price £679.99 **£504.95**

EOS-300D Lens Kit

- Lens Kit incl 18-55mm Canon Lens
- 6.3 CMOS Sensor
- 1.5x Focal Length Magnifier
- 1.5" LCD Screen
- DIGIC Processor
- Also EOS-300D...New Digital SLR Body Charger Kit @ £769.95

Call for more details 020 7535 3275 **£854.99**

IXUS 400

- 4 mega pixel CCD
- 3x Optical Zoom
- Includes Nihm Battery (NB11L)
- Charger (CB-2LSE)
- USB Cable (IFC-300PCU)
- 32Mb Flash Card

Typical Price £399.99 **£319.95**

DIGITAL CAMERAS

EOS-10.....New Lower Price

EOS-10D 6.3 Megapixel Digital SLR Body.....£1179.99

Powershot G5 + 1GB Microdrive Kit.....£624.95

Powershot S50.....£384.95

Powershot S50 + 1GB Microdrive Black Kit.....£499.95

Powershot A300.....£162.95

Powershot A70.....£237.99

Powershot A80 NEW.....£292.95

Digital IXUS II.....(Typically £329.99).....£269.99

MINOLTA

DIMAGE XT

- The world's slimmest digital camera with 3.2 Megapixels
- 12x Zoom
- 1.1 Second Quick Start-up
- Dimensions 85.5 x 67 x 20mm
- Weight 120 g

Typical Price £299.99 **£258.95**

DIMAGE F300

- 3x Zoom Digital Camera
- Five effective megapixels
- 1.5" TFT LCD monitor
- 4x Digital zoom
- Optical real-image zoom viewfinder
- Intelligent Area AF focusing

Typical Price £499.99 **£329.99**

DIGITAL CAMERAS

Dimage E223 2 Megapixel.....£139.95

Dimage E323 New.....EPHONE

Dimage 7Hi 5 Megapixel.....£769.95

Dimage A1 New.....EPHONE

Dimage Z1 10x Zoom New.....EPHONE

HAHNEL POWERSTATION

- AA Magnon plug-in charger for rechargeable Nihm Batteries Pack includes 4 x 2000mah Batteries

Typical Price £21.99 **£14.99**

FINEPIX A202

- 2.0 million effective pixel CCD
- 36mm lens
- Sliding lens cover
- 1.5 inch TFT LCD screen
- Webcam facility
- xD-Picture Card compatible

Typical Price £129.99 **£119.99**

FINEPIX A204

- 2.0 million pixel CCD
- xD-Picture Card compatible
- 1.5 inch TFT LCD screen

Also, Finepix A202 @ £121.95
Finepix A203 @ £159.99
Finepix A303 @ £244.99

Typical Price £209.99 **£154.99**

FINEPIX S602

- Dual media slot (SmartMedia™ & CompactFlash™ type II)
- 18M Microdrive™ compatibility
- Also, Finepix S602 PRO KIT @ £599.99

Typical Price £549.99 **£489.99**

DIGITAL CAMERAS

Finepix A310.....£255.99

Finepix S304.....(Typically £379.99).....£309.99

Finepix F410.....£315.99

Finepix F700.....£479.99

Finepix F402.....EPHONE

S5000 Zoom NEW.....EPHONE

Finepix S2 Pro SLR.....EPHONE

XD Picture Card USB Drive NEW.....EPHONE

DPD-MP3 Drive.....EPHONE

Panasonic

DMC-FZ2

- 2.1 Megapixel Digital
- 12x Optical Zoom
- 3x Digital Zoom
- 1.5" TFT LCD Screen
- Video output: PAL/NTSC
- Storage media: Secure Digital / Multimedia

Typical Price £699.99 **£564.99**

SV-AV100

- Improved Motion Picture Quality/MPEG4 Frame Rate
- Can Record MPEG2 and MPEG4 (Motion JPEG) for high quality video
- A/V Cradle for Easy Playback and Recording from

Supplied with a 512MB SD Card

NEW! NEW! NEW! **£929.95**

DIGITAL CAMERAS

SV-AV20.....£229.99

SV-AS10 2m Pixel Camera/MP3 Player.....EPHONE

SV-P10 Mini Digital printer + Free Paper Set (Typically £169.99).....EPHONE

EXTENDED WARRANTY

WORLDWIDE DELIVERY

SECURE ONLINE ORDERING

CALL NOW FOR MORE DETAILS
E&OE DCM Issue 15

DSC-P12

- 5.0 effective Mega pixels
- Super HAD CCD
- 3x Optical zoom
- MPEG Movie VX with audio
- 32Mb Memory stick supplied
- Including High Speed Battery & Leather Case

Also, DSC-P8 @ £229.95
DSC-P10 @ £283.95

Typical Price £499.99 **£319.95**

DSC-V1

- 5.0 effective Megapixel Super HAD CCD
- 4x optical zoom
- NightFraming/NightShot
- MPEG Movie VX with audio
- STAMINA LITHIUM battery supplied

Memory Stick PRO compatible & 32MB Memory Stick supplied

Typical Price £549.99 **£434.95**

DSC-P92

- 5.0 Mega pixels
- 1.5 inch LCD monitor
- Built in flash
- MPEG Movie
- USB port
- Limited Offer for purchases made by 31st August 2003 incl.

Also, DSC-P32 @ £143.95
DSC-P52 @ £163.95
DSC-P72 @ £197.95

Typical Price £399.99 **£264.95**

DIGITAL CAMERAS

DSC-U20 Available in Silver.....£154.99

DSC-U30.....£146.95

DSC-U50.....£195.95

DSC-U60 Waterproof Camera.....£184.95

DSC-F77.....£309.99

DSC-FX77.....£364.95

DSC-F717.....£527.95

DSC-F828 NEW.....EPHONE

MVC-CD500.....£424.95

PENTAX

OPTIO 33L

- 3.2 mega pixel
- 2x optical zoom
- 2.7 x Digital zoom
- 1.6 colour LCD screen
- 7 Program exposure modes
- 30 second Movie mode
- Night scene mode

Typical Price £279.99 **£199.99**

OPTIO 550

- 5m Pixels with 5x Optical
- 2x digital zoom lens
- 9 Program exposure (picture) modes
- 30 second movie mode with sound
- Voice recorder

Typical Price £649.95 **£429.99**

DIGITAL CAMERAS

Optio S NEW 3 Megapixel.....£279.95

Optio 450 NEW.....£376.99

10x50WP Binoculars.....£149.00

DB-100 Digital Binoculars.....EPHONE

retra

Instant Interest

Free Credit Available

Full Details on Request

HOW TO FIND US

Less than 100 yards from Edgware Road Station (Bakerloo Line)

We are outside the congestion charging area

SONY ACCESSORIES

DPP-MP1 Portable Digital Video Printer.....£179.99

DPP-EX5 Digital Video Printer.....£204.95

LCS-FEC Soft Case for DSC-177 & FX77.....£15.95

LCSUJ Soft Case for DSC-U20, DSC-U30.....£16.99

LCM-SX Semi-soft case for DSC-S85/S75.....£32.95

LCS-FX Soft Case for DSC-F717/F707.....£32.99

LCS-CSA Soft Case for DSC-F717 & DSC-S series.....EWEB

LCM-F505 Soft Case for DSC-F505.....£14.99

LCM-PX Semi-Soft Case for DSC P series.....£36.99

MS-A32A Memory Stick.....£22.99

MS-A64A Memory Stick.....£32.99

MS-A128A Memory Stick.....£59.95

MS-A12852 Memory Stick (2X128MB).....£99.99

MS-G32A Magic Gate Memory Stick.....£27.99

MS-G64A Magic Gate Memory Stick.....£39.99

MS-M64A Memory Stick Duo (incl. Adapter).....£42.95

MS-G128A Magic Gate Memory Stick.....£59.99

MSX-256 Memory Stick Pro.....£86.99

MSX-512 Memory Stick Pro.....£209.99

MSX-1G (1 GB) Memory Stick Pro.....£399.95

MSAC-U570 Memory Stick Optical Mouse.....£59.95

MSAC-U50 Memory Stick USB Reader.....£38.95

MEMORY CARDS + READERS

Compact Flash

512Mb.....£127.99

256Mb.....£69.99

128Mb.....£31.99

64Mb.....£17.99

32Mb.....£13.99

Smartmedia

128Mb.....£28.99

64Mb.....£18.99

32Mb.....£11.50

16Mb.....£7.99

XD Cards

256Mb.....EPHONE

128Mb.....£42.99

64Mb.....£22.99

32Mb.....£12.99

16Mb.....£7.99

SD Cards

256Mb.....£99.99

128Mb.....£43.99

64Mb.....£27.99

32Mb.....£19.99

Konica

REVIO KD510Z

- 5.0 Mega Pixel CCD
- 3x Optical zoom, Movie mode with sound
- Dual memory card slots - SD/Memory Stick compatible
- Small, metal bodied

Typical Price £399.99 **£369.99**

REVIO KD410Z

- 4.0 megapixels
- 3.0x optical zoom
- 2.0x digital zoom
- 1.5" LCD monitor
- Memory Stick, Secure Digital
- Weight: 198g

Also, KD-310Z.....£229.99
KD-3300.....£184.99
REVIO C2 EPHONE

Typical Price £299.99 **£274.99**

Pricewatch

We try to match all our competitors

Please call Free on 0800 980 1955

Log on to hiwayhifi.com, select the product, click on price watch & send us the details

FULL RANGE IN STOCK 0800 980 1955

WE ARE HERE

EDGWARE ROAD
BARKER LINE

A501 MARLBOROUGH ROAD

MARBLE ARCH

EDGWARE ROAD
CIRCLE & GUYARD LANE

camera shop

.co.uk

Canon EOS 300D
with 18-55mm EF Lens

Only **£849.00**

Body Only Price **£749.00**

Features at a Glance:

- 6.3 Megapixels
- Max Resolution of 3072x2048
- 1.8" LCD Monitor
- Dimensions: 142x99x72 mm
- Weight: 560g - Body Only
- EOS EF Lens Mount
- Shutter Speed 30-1/400 sec
- Storage - Compact Flash 1/11
- Flash Sequence - 1/200 sec.

Camera comes complete with:

- EOS 300D Camera
- Wide Strap
- Battery Charger
- Power Cord
- Battery Pack
- Interface Cable
- Video Cable
- Software CD-ROM



First digital
SLR for under
£1000!

**6.3 million
effective pixels**

**BUY NOW
PAY LATER**

No Deposit No Interest
No Payment for 9 Months*

To apply for Credit, we need to ask only 3 simple questions:-

1. Name 2. Address 3. Date of Birth

To apply for credit with Camerashop.co.uk the following criteria apply:

- You must be at least 18 years old and under 85 years old
- A permanent UK resident

- In regular employment (min 16 hours per week) including self employment
- A spouse/partner at home whose spouse/partner is in regular employment
- Have lived at your current address for 3 years or provide details of previous address
- Be able to make payments by Direct Debit



Kodak CX6200
Under £100!

2.0 megapixels
FREE Paint shop Photo Album software worth £14.99
FREE Mini-Tripod worth £8.00
ONLY £94.00



Fuji A303
3.2 megapixels
FREE Carry case worth £14.99
FREE charger & batteries worth £19.99
FREE additional 16mb XD picture card worth £19.99
FREE Paint shop Photo Album Software worth £14.99
FREE Mini-Tripod worth £8.00
ONLY £209.00

Casio Z4
New release



"Just keeps getting better"
4.0 megapixels
FREE Paint Shop Photo Album
FREE Mini-Tripod
ONLY £319.00



Fuji S5000
Plus **FREE** Accessories worth over £40.00!
3.1 megapixels
Including
FREE Fuji Case worth £19.99
FREE Paint shop Photo Album Software worth £14.99
FREE Mini-Tripod worth £8.00
ONLY £359.00

Buy now pay September 2004 (All cameras subject to availability)

See our full range of Digital Cameras, Camcorders & Accessories at:

www.camerashop.co.uk/dcm

Buy Now by calling **0800 458 55 60**

Mon - Fri: 9:00 - 21:00 Sat: 9:00 - 14:00

camera shop

.co.uk

With us it's personal

*Our new credit facilities are now fully operational with our Total On-line solution to be completed within the next few weeks. Our buy now pay later scheme with nothing to pay until September 2004 is the perfect way to afford whatever you want today and pay next year. Typical example: Cash price £349.00 inc VAT. Pay nil deposit and nothing for 9 months. Then pay just the cash price (£349.00) only if the loan is paid in full within 9 months. Finance also available over 4 years at APR 29.8%. No deposit, no payments for 9 months and then 39 monthly payments of £18.35. Total price £715.05. With Camerashop.co.uk Finance - You can also spread the cost of your purchase with our easily affordable monthly payment plan. Typical example: Goods Priced at £499.00 - APR 19.8% 24 Months @ £27.47 - Total amount payable £859.28. Finance Subject to status. Written Details on request.

PHOTO EDITING & MANAGEMENT

Europe's market leader in
video, photo & music software*



ssp £29.99

MAGIX Digital Photo Maker 2004 - The essential supplement for your Digital Camera and Image Collection. Everybody knows the story. No sooner has the long awaited digital camera been purchased, then exciting photo material sits around in countless files on the hard disk waiting to be enjoyed. There's no clear overview of the images which results in data chaos.

But with MAGIX Digital Photo Maker 2004, you can finally clear up the mess - **immediately view photos, organise and optimise then burn onto CD** to create amazing presentations.

MAGIX Photos on CD & DVD 2.0 deLuxe - Relive your favourite photos on your TV. What can you do with all those photos? Hundreds of pictures of family and friends, holiday and landscapes, or images downloaded from the Internet. Now you can enjoy them on your TV via a DVD player! **Sensational slide shows burnt completely onto CD or DVD.**

No more boring slide shows! Make setting up projectors and screens a thing of the past. MAGIX Photos on CD & DVD 2.0 deLuxe is the quick and easy interactive photo album to enjoy whenever & wherever.



ssp £39.99



ssp £19.99

MAGIX sound essentials for video & photoshows volume 1

The mega sound pack. Put an end to boring video and slide shows! Improve your photographs of holiday trips, family events, parties and much more with an enormous selection of impressive sounds and atmospheric background music.

Excite your audience with the impressive sound of your photos!

Over 4200 sounds, background pieces and melodies.

Top productions & royalty free - (WAV / 16 BIT / 44.1 Khz / Stereo)

*denotes the number of products sold through European retail (total market) according to Media Control's monthly charts DMACH Non-games; GfK Benelux, France, Non-games; Future Retail panel UK, Italy, Spain, Nordic; Period: January-June 2003.

Award Winning Range



Music Maker Dance Edition
Gold Award - 10 out of 10



Audio Cleaning Lab
Gold Award - 90%



Music Maker 2003 deLuxe - 9/10



Music Studio 2003 deLuxe
Computer Music - 10/10



Notation 2
Computer Active Buy It!



Video deLuxe 2.0 PLUS
What Camcorder - Best Buy



Video deLuxe
PC Answers - Platinum 97%



Video deLuxe
Gold Award - 85%



www.fasttrak.co.uk
0800 056 1799

amazon.co.uk



"Log onto **empiredirect.co.uk** today and not only are you guaranteed to **save £££'s** off Dixons, Currys, Comet and Argos prices but you can also choose from **over 4,000 Top Brand Electrical Products** available online. As the **UK's 'Number One' Online Electrical Superstore** you get high street service at online prices... **everytime!**"

DIGITAL CAMERAS

Canon EOS100	Phone
Canon bxcDig11	Phone
Canon bxcDig400	Phone
Canon PSA30	Phone
Canon PSA300	Phone
Canon PSA70	Phone
Canon PS63	Phone
Canon PS65	Phone
Canon PS65S	Phone
Canon PSS50	Phone
Fuji FPA202	Phone
Fuji FPA203Z	Phone
Fuji FPA204Z	Phone
Fuji FPA303Z	Phone
Fuji FPM603Z	Phone
Fuji FPM603Z-MD	Phone
Fuji FPS304Z	Phone
Minolta Dimage-E223	Phone
Minolta Dimage-X1	Phone
Minolta F200	Phone
Minolta F300	Phone
Nikon C2100	Phone
Nikon C4300	Phone
Nikon C5400	Phone
Nikon S0	Phone
Olympus C350	Phone
Olympus C50	Phone
Olympus MJU300DIGITAL	Phone
Olympus MJU400DIGITAL	Phone
Panasonic DMCF1B	Phone
Panasonic DMCF21B	Phone
Panasonic PVDC3000B	Phone
Pentax OPTIO330RS	Phone
Pentax OPTIO33L	Phone
Pentax OPTIO430RS	Phone
Pentax OPTIO550KIT	Phone
Pentax OPTIO5	Phone
Sony DSCF717	Phone
Sony DSCF77	Phone
Sony DSCFX77	Phone
Sony DSCP10	Phone
Sony DSCP32	Phone
Sony DSCP52	Phone
Sony DSCP72	Phone
Sony DSCP8	Phone
Sony DSCP92	Phone
Sony DSCU10	Phone
Sony DSCU20	Phone

DIGITAL CAMCORDER

Canon DMXL1S	Phone
Canon MV600	Phone
Canon MV600i	Phone
Canon MV650i	Phone
Canon MVX150i	Phone
Canon MVX2i	Phone
Canon XM2	Phone
JVC GRD20EK	Phone
JVC GRD50EK	Phone
JVC GRD70EK	Phone
JVC GRD74000EK	Phone
JVC GRD700EK	Phone
JVC GRD99EK	Phone
JVC GRDX5EK	Phone
Panasonic NVDS60B	Phone
Panasonic NVDS65B	Phone
Panasonic NVGS10B	Phone
Panasonic NVGS30B	Phone
Panasonic NVGS40B	Phone
Panasonic NVGS50B	Phone
Panasonic NVGS70B	Phone
Panasonic NVMX500B	Phone
Panasonic VCRM30B	Phone
Sony DCRPC103	Phone
Sony DCRPC105	Phone
Sony DCRPC120	Phone
Sony DCRTRV14	Phone
Sony DCRTRV14S	Phone
Sony DCRTRV19	Phone
Sony DCRTRV22	Phone
Sony DCRTRV24S	Phone
Sony DCRTRV250	Phone
Sony DCRTRV33	Phone
Sony DCRTRV35S	Phone
Sony DCRTRV60	Phone
Sony DCRTRV80	Phone
Sony DCRTRV950	Phone

Hi8 CAMCORDERS

Canon G45H	Phone
Canon V75H	Phone
Sharp VLAH131H	Phone

MICRO MV CAMCORDERS

Sony DCRIP220	Phone
Sony DCRIP55	Phone
Sony DCRIP7	Phone

WIDESCREEN TELEVISIONS

JVC W28R25S	Phone
JVC W28T25S	Phone
JVC W28X37	Phone
JVC W32R25S	Phone
JVC W32T25S	Phone
JVC W32X37	Phone
Panasonic TX28DK1	Phone
Panasonic TX28PS12C	Phone
Panasonic TX28PS1C	Phone
Panasonic TX28PS5C	Phone
Panasonic TX32PD30C	Phone
Panasonic TX32PL4	Phone
Panasonic TX32PS12C	Phone
Panasonic TX32PS1C	Phone
Panasonic TX32PS5C	Phone
Philips 24PW6006C	Phone
Philips 26PW6006C	Phone
Philips 26PW6506C	Phone
Philips 26PW9308C	Phone
Philips 26PW9618C	Phone
Philips 32PW6006C	Phone
Philips 32PW6517C	Phone
Philips 32PW8508C	Phone
Philips 32PW9586C	Phone
Philips 32PW9589C	Phone
Philips 32PW9618C	Phone
Philips 32PW9789C	Phone
Philips 36PW9308C	Phone
Philips 36PW9618C	Phone
Sanyo 24WN6	Phone
Sanyo 28WN6	Phone
Sharp 28W73H	Phone
Sharp 32JF73H	Phone
Sharp 32W73H	Phone
Sony KV28FX68S	Phone
Sony KV28LS36S	Phone
Sony KV32FQ70S	Phone
Sony KV32F880S	Phone
Sony KV32FX68S	Phone
Sony KV36FS76S	Phone
Toshiba 26D336	Phone
Toshiba 32Z23B	Phone
Toshiba 32Z26P	Phone
Toshiba 32ZP3B	Phone
Toshiba 36Z26B	Phone
Toshiba 36ZP3B	Phone

WE ALSO STOCK MULTIREGION DVD PLAYERS, DVD RECORDERS, PROJECTION TVS, LCD PROJECTORS, HI-FI AND AV EQUIPMENT AND MUCH MORE... PRICES SUBJECT TO CHANGE.

FREE DELIVERY! ON DIGITAL CAMERAS OVER £200!*

OLYMPUS 4.0 Megapixel Digital Camera



empiredirect.co.uk

£219.99
INC VAT

FREE DELIVERY!

- 4.0 Million Pixel Image Process
- Versatile Manual/Automatic Functions for Exposure, Focus and White Balance

- 3.5x Digital Zoom Facility
- USB AutoConnect and Video Interface

Model No. C4000Z

Canon 3.2 Megapixel Digital Camera

- 3 x Optical Zoom lens (35mm equivalent: 35-105 mm)
- Smooth Digital Zoom (10 x combined with optical zoom)
- 1.5" TFT colour screen

Model No. #SA70

empiredirect.co.uk
£229.99
INC VAT
FREE DELIVERY!



Canon 6.3 Megapixel Digital Camera

- Digital SR which includes (110-150mm lens 10.3 Megapixel CMOS Sensor)
- 7 Point Wide Area Auto Focus
- High Performance DIGIC Processor
- 100-1800 ISO Speed Range

Model No. EOS3000-LINS KIT

empiredirect.co.uk
£829.99
INC VAT
FREE DELIVERY!



SONY 5.0 Megapixel Digital Camera

- 5.0 Effective Megapixels Sony Super HAD CCD
- 3x Optical Zoom
- MPEG Movie VX (Audiot)
- ImageMaker 1.5 CD

Model No. #SCP12

empiredirect.co.uk
£319.99
INC VAT
FREE DELIVERY!



PENTAX 4.0 Megapixel Digital Camera

- 4.0 Effective Megapixels
- 8 Modes / 7 Picture Modes
- 3x Optical and 2x Digital Zoom
- Flashless
- Optical Viewfinder

Model No. OPTIO-S4

empiredirect.co.uk
£299.99
INC VAT
FREE DELIVERY!



MINOLTA 5 Megapixel Digital Camera

- SLR-type Digital Camera with Advanced Speed & Precision
- Progressive scan CCD & new image processing LSI

Model No. #RIAGE A1

empiredirect.co.uk
£599.99
INC VAT
FREE DELIVERY!



Nikon 4.0 Megapixel Digital Camera

- High-Quality 3x Zoom-Nikkor lens plus 4x Digital Zoom
- Compact and lightweight body with fully retractable zoom lens
- Take Great Pictures Easily

Model No. C4300

empiredirect.co.uk
£299.99
INC VAT
FREE DELIVERY!



AUDIO VISUAL | HOME APPLIANCES | HIFI SEPARATES | IN-CAR | COMPUTERS | PHOTOGRAPHY

ORDER ON-LINE 24 HOURS A DAY

www.empiredirect.co.uk

OR ORDER BY PHONE

0870 1201 120

Monday - Friday: 9am - 8pm Saturday: 9am - 6pm Sunday: 10am - 5pm

FREE Mini Tripod worth £8 With every camera

FREE Advice on a package to suit your needs!!

FREE 20 photo prints offer With every camera

digital cameras, printers, scanners, memory + much more

FUJIFILM FinePix S7000 Zoom

New camera packed with features

Bundle Package Offer

- 256MB memory card worth £89.99
- Official Carrying Case worth £24.99
- Fast charger with in car charge facility and 4x AA 2200 mAh NimH Batteries worth £29.99

only **£529.99**
only **£649.99**



CASIO EXILIM Z4

Bundle Package Offer

- 128MB Secure Digital card worth £39.99
- Carrying Case worth £14.99
- Spare Lithium Battery worth £24.99

only **£314.99**
only **£374.99**

FUJIFILM FinePix S5000 Zoom

packed with features

Bundle Package Offer

- 64 xD Picture card worth £29.99
- Official Carrying Case worth £24.99
- Fast charger with in car charge facility and 4x AA 2200 mAh NimH Batteries worth £29.99

only **£324.99**
only **£379.99**



V-XS Drive 2

Vosonic XS-Drive Digital Storage

Copy your memory cards to a small robust hard drive. Excellent if you take lots of pictures on your holidays or when you are away from a computer. Doubles up as a 6 in 1 card reader too. Comes complete with leather type carry case, USB 2.0 Cable and Power Supply.

Windows 98/95/2000/XP/2003 Mac OS 8.6/9.0 (With Drivers)

Windows ME/XP/2000/2003/2003/2003 (With Drivers)

20Gb VXSD220 **£194.99**

30Gb VXSD230 **£214.99**

40Gb VXSD240 **£239.99**

....other storage devices please see web or ring!!

Hi-Touch Imaging Technologies (UK)

Dye Sublimation A6 Printers

Top Quality printers Please ring for full product list

from **£129.99**

LEXAR Media

...approved stockist see website or ring for prices!!

Digital Cameras

CANON	INC VAT	INC VAT
A70	244.99	+ extra 128mb card, case, charger, 4 x 1800mAh 284.99
A80	TBA	+ extra 128mb card, case, charger, 4 x 1800mAh TBA
Ixus 400	334.99	+ extra 64mb card, case, spare lithium ion battery 369.99
S-50	399.99	+ extra 128mb card, case, spare lithium ion battery 449.99
G-5	499.99	+ extra 128mb card, case, spare lithium ion battery 649.99
Eos 3000	749.99	+ 18-55mm lens, 1GB microdrive, USB reader, spare battery 1019.99
Eos 100	1229.99	+ 1gb Microdrive, USB reader, spare lithium ion battery 1469.99
FUJIFILM		
A-210	189.99	+ extra 64mb card, official case, charger, 4 x 1800mAh 229.99
A-310	244.99	+ extra 128mb card, official case, charger, 4 x 1800mAh 294.99
F-110	299.99	+ extra 16mb card, case, camera dock, spare battery 333.99
F-700	409.99	+ extra 128mb card, case, spare lithium ion battery 475.99
S-3000	229.99	+ extra 64mb card, official case, charger, 4 x 1800mAh 274.99
S-7000	529.99	+ extra 256mb card, official case, fast charger, 4 x 2200mAh 649.99
S-602 pro	499.99	+ 1gb microdrive, fast charger & 4 cells, in car charger 599.99
S-2 pro	1049.99	+ 1gb Microdrive, 5in1 reader, battery kit 1249.99
KODAK		
LS-633	TBA	+ PLEASE SEE WEBSITE FOR SPECIAL OFFERS
DX-6340	219.99	+ extra 128mb card, case, official docking station 309.99
DS-14n pro	3999.99	+ PLEASE SEE WEBSITE FOR SPECIAL OFFERS
KONICA		
KD-310z	224.99	+ 128mb SD Card, soft case, card reader, spare battery 299.99
KD-410z	269.99	+ 128mb SD Card, soft case, card reader, spare battery 349.99
KD-510z	349.99	+ 256mb SD Card, soft case, card reader, spare battery 459.99
KYOCERA		
L-3v	224.99	+ 128mb SD Card, soft case, card reader, batteries/charger 279.99
L-4v	269.99	+ 128mb SD Card, soft case, card reader, batteries/charger 334.99
S-5R NEW	349.99	+ PLEASE SEE WEB FOR THE LATEST DEAL
SL-300R NEW	269.99	+ PLEASE SEE WEB FOR THE LATEST DEAL
MINOLTA		
E-323	169.99	+ PLEASE SEE WEB FOR THE LATEST DEAL
F-200	229.99	+ 128mb SD Card, official case, charger, 4 x 1800mAh 299.99
F-300	299.99	+ 128mb SD Card, official case, charger, 4 x 1800mAh 359.99
X1	229.99	+ 128mb SD Card, official case, reader, spare lithium battery 329.99
A-1	639.99	+ 256mb card, official carrying case, 704.99
NIKON		
2100	179.99	+ 64mb card, soft case, spare set 2000mAh cells 209.99
3100	239.99	+ 128mb card, soft case, spare set batts, card reader 274.99
5400	519.99	+ 256mb card, soft case, card reader, spare lithium ion battery 599.99
5700	749.99	+ 512mb card, soft case, spare lithium battery, card reader 899.99
OLYMPUS		
C-150z	114.99	+ 64mb card, official leather case, charger, 4 x 1800mAh 159.99
C-350	169.99	+ 64mb card, official leather case, charger, 4 x 1800mAh 199.99
mu300	229.99	+ 64mb card, soft case, spare lithium ion battery 274.99
mu400	269.99	+ 64mb card, soft case, spare lithium ion battery 314.99
C-5050	399.99	+ 256mb card, soft case, spare set 2000 mAh cells 459.99
C-750	359.99	+ 256mb xD card, soft case, charger, 4x 1800mAh cells 479.99
PENTAX		
Optio 33WR	249.99	+ 128mb SD Card, official case, spare lithium battery WEB
Optio 54	329.99	+ 128mb card, soft case, charger, 4 x 1800 mAh cells WEB
Optio 450	339.99	+ 128mb SD Card, case, spare lithium battery WEB
Optio 550	364.99	+ 128mb SD Card, case, spare lithium battery WEB
SAMSUNG		
V3	199.99	+ 128mb card, case, lithium battery, charger, mains adapter 279.99
V4	244.99	+ 128mb card, case, lithium battery, charger, mains adapter 339.99

...other models see web

Batteries & Chargers

AN-MANN Power Management

digispeed 4 Fast Charger

ONLY **£49.95**

The latest addition to Anmann award winning power solutions - boosting charge times of 1 1/2 hours for 2200 mAh NimH cells. Microprocessor controlled with built in cooling fan - includes in car adapter and 4 x 2200mAh cells.

+ extra 4 Pack

+ Batt. Box (with 16)

ONLY **£62.95**

energy 8 Fast Charger

ONLY **£49.95**

This unit is superb, boosting a charge time of around 2-3 hours with 1800mAh cells. The unit is microprocessor controlled and has faulty cell detection with an initial charge condition as well. 6 AA cells and 2 E type cells can be individually charged at once. C type and D type can also be charged. 3 year warranty supplied with this product.

2200 mAh NimH Rechargeable Batteries

ONLY **£12.99**

4 Pack

ONLY **£19.99**

8 Pack

Powerline 4 Traveller

ONLY **£44.95**

The best pocket travel charger in the business (highly recommended by MINOLTA UK Ltd) includes 4 x 2000 mAh NimH Cells which can be charged in 2-3 hours. Includes plugs for use all around the world - microprocessor controlled!

+ extra 4 Pack

+ Batt. Box (with 16)

ONLY **£54.99**

Accessories

Canon	Price	Minolta	Price	Nikon	Price
Power		Power		Power	
NB-11H Battery	£24.99	AC-2SLUB/LAC Adpt	£44.99	EN-EL12L2 Battery	£34.99
NB-21 Battery	£29.99	AC-21 AC Drive	£29.99	EN-EL3 Battery	£44.99
NB-5H Battery	£34.99	NP-200 Battery	£34.99	EH63 Mains Adapter	£34.99
BP-511 Battery	£49.99	EBP-100 Battery Set	£34.99	MH-63 Car Adapter	£34.99
ACK-500 to 800	£39.99	Cases		EN-21 Mains/Charger	£34.99
CA-PS580 Charger	£39.99	MB-D1 Case for 800	£29.99	Generic Mains Unit	£29.99
CR-580 Charger	£84.99	S-304/404/414 Case	£14.99	MB-E5700 Battery Grip	£109.99
CA-PS400	£74.99	Dim X10 Case	£14.99	MB-E5000 Battery Grip	£99.99
BG-ED3 Grip	£129.99	F-100/200/300 Case	£14.99	Lenses	
Cases		Flash		LR-E23E/4E/5E/6E/7E	£11.99
SC-PS-300 Case	£19.99	3600 HS (D) Flash	£149.99	E8 Adapter Rings	£99.99
SC-PS-500 Case	£19.99	5600 HS (D) Flash	£289.99	WC-E63 Wide Lens	£129.99
SC-PS-600 Case	£19.99	RC-3 Remote	£24.99	WC-E66 Wide Lens	£134.99
SC-PS-700 Case	£26.99	R-1000x Cable Rel.	£29.99	WC-E80 Wide Lens	£134.99
SC-PS-800 Case	£19.99	R-1000x Cable Rel.	£29.99	TC-E2 Tele-Photo Lens	£99.99
SC-DC100 Case	£26.99	PC-100 Studio Adap.	£24.99	TC-E3 Tele-Photo Lens	£124.99
Underwater Housing		OLYMPUS		TC-E3S Tele-Photo Lens	£139.99
WP-DC100 to WP-DC200	£149.99	Power		FC-E8 Fisheye Lens	£109.99
LA-DC52 (B) & (C)	£14.99	C-BAG Mains Adapter	£49.99	Cases	
LA-DC58 & (B)	£14.99	E-TAE Mains Adapter	£49.99	CS-E 77X/300/595	£27.99
WC-DC52(B) Wide	£79.99	B-18LPS Battery Pack	£234.99	CS-2500 Case	£23.99
WC-DC58(B) Wide	£54.99	B-32LPS Power Kit	£499.99	CS-CP1011/12	£16.99
TC-DC58 (N)	£89.99	L10 Battery for C-50	£23.99	CS-2000 Case	£16.99
B-4L01 Battery Holder	£19.99	B-4L01 Battery Holder	£19.99	Flash	
CASIO		Cases		SB-500X Flash Gun	£194.99
ADC-603 Mains	£24.99	Case 20"730"140"150"160"	£29.99	SB-500X Flash Gun	£205.99
NP-20 Battery	£24.99	Case C-5050z	£27.99	AS-18 Flash Adapter	£34.99
NP-30 Battery	£24.99	Case C-5052	£23.99	SK 905 Bracket	£74.99
Cases		Case C-200/220/300	£19.99	MC-E311 Remote	£99.99
EB-C1C2C3C4	£19.99	Case C-700/720/730/740/750	£19.99	ES-28 Slide Copier	£49.99
FUJIFILM		Case E-10E-20	£36.99	HL-CP11 Monitor Hood	£14.99
Power		Flash		HR-5700 Hood	£16.99
NP-60 Battery	£34.99	WCON-07 Wide Lens	£139.99	SONY	
NP-80 Battery	£34.99	TCOON-14 Tele Lens	£69.99	NH-AA-20i	£8.99
NP-120 Battery	£6.99	M-CON45 Macro Lens	£59.99	NFS-11 Battery	£49.99
ZHR-3UF Batteries	£44.99	WCON-08 Wide F-E-20	£179.99	NP-FM50 Battery	£44.99
BC-600/680 Fast Chrg	£44.99	TCOON-140 Tele F-E-20	£169.99	NP-FCT1 Battery	£44.99
BK-461 Fast AA Chrg	£44.99	TCOON-300x for E-20	£169.99	SC-UM50 Charger	£57.99
AC-3VAC-5VH Mains	£27.99	TCOON-302 for E-20	£179.99	SC-VW15 Charger	£57.99
In Car Car Adapter	£27.99	MCON-35 Macro F-E20	£179.99	SC-VX10 Chatter	£57.99
Cases		CL-A3 Adapter Ring	£29.99	CL-LS1 Mains Unit	£29.99
SC-A202/203/204/203	£14.99	CL-A4 Adapter Ring	£29.99	Cases	
SC-FX304 Case	£19.99	BUR 40-55/49-55	£19.99	LCS-FX Case	£39.99
SC-FX602 Case	£27.99	Flash		LCS-CP2 Case	£19.99
FL-40 Flash	£29.99	FL-40 Flash	£29.99	LCS-PEA Case	£19.99
FL-BK01	£24.99	FL-CB01/CB03/CB04	£29.99	LCS-PA Case	£19.99
FL-CB01/CB03/CB04	£29.99	FL-CB02	£29.99	LCS-PA Case	£19.99
FL-CB02	£29.99	Neckstrap for E1020	£14.99	MPK-P5 Underwater	£167.99
VL-FX9 Wide Lens	£89.99	RM-CB1 Cable Release	£49.99		
TL-FX9 Tele Lens	£89.99				

Memory Cards

TWIN PACK SPECIAL OFFERS

2 x 64MB C/Flash **£29.99**

2 x 128MB C/Flash **£54.99**

while stocks last!

64MB C/Flash **£16.99**

128MB C/Flash **£29.99**

256MB C/Flash **£49.99**

512MB C/Flash **£89.99**

1GB C/Flash **£199.99**

SanDisk 2 ULTRA COMPACT FLASH

40 x Speed ULTRA II Fast Compact Flash

256MB **£64.99**

512MB **£129.99**

1 GB **£254.99**

Official UK Stockist

All Sandisk Memory has 5 years warranty

SANDISK SECURE DIGITAL	SMARTMEDIA	PRICE
32mb Secure Digital	32mb Smart Media	9.99
64MB Secure Digital	64MB Smart Media	14.99
128MB Secure Digital	128MB Smart Media	24.99
256MB Secure Digital		69.99
512MB Secure Digital		159.99

xD PICTURE CARD

32MB xD **12.99**

64MB xD **24.99**

128MB xD **44.99**

256MB xD **84.99**

512MB xD - IN STOCK **ASK**

MEMORY STICK

64MB Memory Stick **29.99**

128MB Memory Stick **49.99**

Memory stick pro - please see web

Printers & Scanners

CANON	INC VAT	CANON	INC VAT
CP-200	149.99	FS-4000US	624.99
CP-300	199.99	CALL	CALL
I70	209.99	Canoscan 3000F	
R50	399.99	Canoscan 9900F	
R50	154.99		
R50	264.99	Scan Dual III	254.99
FUJIFILM		Scan Elite 5400	529.99
CX-400	349.99	Scan Multi Pro	2049.99
OLYMPUS			
P200PS	399.99	LS 40 ED	624.99
P400D	449.99	LS 4000 ED	1099.99
		LS 8000 ED	2499.99

Other printers available please call

Other scanners available

...for other products please visit website

TEL : (0870) 2405470

FAX : (01204) 386629

8 - 6pm

MON - SAT

SAT 9 - 5pm

FotoSense Ltd
Unit 9, Riverside Park
Waters Meeting Rd
Bollon, BL1 8TU

Please Make
PO/Checks
payable to:
FotoSense Ltd

PRICES INCLUDE VAT & DEL. P & P WHERE APPLICABLE TO BE CHARGED AT ROYAL MAIL REGISTERED RATES

.....for thousands more products please visit **www.fotosense.co.uk**

115 Lower Church Road
BURGESS HILL
West Sussex, RH15 9AA
16 The Broadway
HAYWARDS HEATH
West Sussex, RH16 3AL

PARK
CAMERAS

Order online at
www.parkcameras.co.uk

Mail Order Hotline
08450 580 477
(calls charged at Local Rates)

visit our showrooms, call or visit us online at: www.parkcameras.co.uk

Expert Advice and Superb Value from the **Canon** Digital Camera Experts

Introducing the Fantastic New Canon EOS 300D!!!

Canon have done it again with another amazing product with a major price breakthrough! The new EOS 300D Digital SLR is available from Park Cameras for a too low price to print! And it is available with the new EF-S 18-55mm f/3.5-5.6 lens for only **£829.99**

The EOS 300D bundles proven high performance technologies (such as seven point, high-speed predictive auto focus, 2.5 frame per second burst rate, 35-zone metering and DIGIC image processor) into a camera affordable to everybody. Main Spec:

- 6.3 Megapixel CMOS Sensor
- 1.6x Focal Length Magnification
- Accepts all Canon EF lenses
- Increased Speed and Buffer with DIGIC processor
- 7 point TTL focusing system
- Full manual control including up to ISO 1600 Film Speed
- Direct Printing with many of Canon's latest printers

**SUPERB REVIEWS
& NOW IN STOCK**

As a Canon Pro Dealer for 32 years, we are able to offer expert advice, a full range of Canon EF Lenses, Flashguns and all other accessories

Canon EOS 300D Body Only **Our LOW PRICE has drawn complaints from other dealers - please phone for even lower price!**

Canon EOS 300D + EF-S 18-55mm f/3.5-5.6 USM	ONLY £829.99*
Canon EOS 300D + EF 28-105mm f/4-5.6 USM	ONLY £799.99*
Canon EOS 300D + 1GB Microdrive	ONLY £839.99*
Canon EOS 300D + BG E1 Grip + BP511 Battery	ONLY £889.99*
Canon EOS 300D + Sigma 18-50mm DC + Sigma 55-200mm DC	ONLY £899.99*
Canon EOS 300D + EF-S 18-55mm+BG E1 Grip+BP511 Battery	ONLY £999.99*
Canon EOS 300D + EF 17-40mm f/4L	ONLY £1299.99*

A Popular Starter Package

- Canon PowerShot EOS 300D
- EF-S 18-55mm f/3.5-5.6
- 1.0GB Microdrive
- Spare Canon BP511 Battery
- USB 2.0 Card Reader

SRP £1394.99
only £1035.00*

B Style Package

- Canon EOS 300D
- EF 28-135mm f/3.5-5.6 IS USM
- BG E1 Grip
- 1GB Microdrive
- Spare Canon BP511 Battery
- Lowepro D-RES 65AW
- USB 2.0 Card Reader

SRP £2019.94
only £1465.00*

C The Complete Package

- Canon EOS 300D
- EF 17-40mm f/4L USM
- BG E1 Grip + 1GB Microdrive
- Spare Canon BP511 Battery
- Lowepro D-RES 65AW
- BJ 1965 Printer + USB Cable

SRP £2489.52
only £1885.00*

EOS 10D Packages

Canon EOS 10D + 65AW Toploader case	£1129.00*
Canon EOS 10D + BP-511 Battery	£1195.00*
Canon EOS 10D + Fuji Fast 512MB Compact Flash	£1245.00*
Canon EOS 10D + BG-ED3 Grip + BP-511 Battery	£1329.00*
Canon EOS 10D + 1GB Microdrive	£1259.00*
Canon EOS 10D + 1GB Compact Flash card	£1339.00*
Canon EOS 10D + EF 17-40mm f/4L	£1269.00*
Canon EOS 10D + 28-105mm f/4-5.6 USM	£1259.00*
Canon EOS 10D + 512MB Fast card + 65AW Toploader	£1284.00*
Canon EOS 10D + BG-ED3 Grip+BP-511 Batt+512mb	£1429.00*
Canon EOS 10D + 24-85mm f/3.5-5.6 USM	£1449.00*
Canon EOS 10D + Grip + BP-511 Battery + 1GB Mdrive	£1449.00*
Canon EOS 10D + 1GB Microdrive + 550EX Flashgun	£1499.00*
Canon EOS 10D + 1GB CF card + 550EX + BP-511	£1630.00*
Canon EOS 10D + EF 24-70mm f/2.8 L USM	£2209.00*
Canon EOS 10D + EF 16-35mm f/2.8 L USM	£2379.00*
Part Exchange Deal: Canon EOS 10D Body	£850 + your D40

EF Lenses

EF 15mm f/2.8 Fisheye	£759.99
EF 20mm f/2.8 USM	£579.00
EF 50mm f/1.8	£255.00
EF 50mm f/1.4 USM	£575.00
EF 100mm f/2.8 USM Macro	£519.00
EF 16-35mm f/2.8 L USM	£1299.00
EF 17-40mm f/4.0 L USM	£629.00
EF 20-25mm f/3.5-4.5 L USM	£299.00
EF 24-70mm f/2.8 L USM	£1189.00
EF 24-85mm f/3.5-5.6 USM	£229.00
EF 28-90mm f/4.0-5.6 USM	£160.00
EF 28-90mm f/4.0-5.6 L USM	£200.00
EF 28-105mm f/3.5-5.6 L USM	£249.00
EF 28-135mm f/3.5-5.6 L USM	£119.99
EF 28-200mm f/3.5-5.6 L USM	£299.00
EF 28-200mm f/3.5-5.6 L USM	£249.00
EF 70-200mm f/2.8 L USM	£799.00
EF 70-200mm f/4.0 L USM	£499.00
EF 75-300mm f/4.0-5.6 L USM	£199.99
EF 75-300mm f/4.0-5.6 L USM	£169.99
EF 75-300mm f/4.0-5.6 L USM IS	£299.00
EF 90-300mm f/5.0-6.3 L USM	£180.00
EF 100-400mm f/4.5-5.6 L USM	£1249.00
EF 1.4x II extender	£290.00
EF 2x II extender	£290.00

Canon Professional Digital SLR Cameras

CANON EOS 1D

- Magnesium body, environmentally sealed
- 4.5 megapixel effective CCD
- Focal length multiplier: 1.2x
- Simultaneous RAW + JPEG mode
- 8 fps for up to 21 JPEG frames or 16 RAW frames
- RAW + JPEG simultaneous recording
- Same 45-point AF as EOS 1V
- Shutter speed range: Bulb, 30, 1/18,000 sec
- IEEE 1394a (FireWire) connectivity

£300 Cashback when bought with Canon EF lens - call for info

SRP £2799.99
READY STOCK PRICE £2199.00

CANON EOS 1Ds

- Full frame 13.5MP CMOS sensor with 11.3 million effective pixels
- 3 FPS (10 frame burst)
- Focal length magnification
- 45-point area auto focus
- 21 zone metering
- High performance imaging engine
- IEEE 1394a (FireWire) interface
- RAW + JPEG simultaneous recording

BEST CAMERA IN THE WORLD?!

SRP £6999.99
READY STOCK PRICE £5499.00*

Canon PowerShot G5



- 5.0 Megapixel CCD
- 4x optical zoom Lens with fast f/2.0 aperture
- 12 shooting modes
- High performance DIGIC processor
- FlexiZone AF/AE for precise focus and exposure point control
- Comprehensive range of optional
- Speedlite flash units and lens accessories

SRP £629.00

Canon's Best Compact Ever OUR PRICE £479.99*

Canon PowerShot G5 + 1GB Microdrive - **ONLY £595.00***

Digital IXUS 400



- 4.0 mega pixel CCD
- 3 x Optics zoom lens
- Ultra compact size
- Long Life Li-ion rechargeable battery

only £319.99*
OR: + 256MB **£364.99**

Other Canon Cameras

camera only	with 128MB	with 128MB + case
PowerShot A300	£154.99*	£178.99*
PowerShot A70	£234.99*	£258.99*
PowerShot A80	£285.00*	£308.00*
PowerShot G5	£479.99*	£503.99*
Digital Ixus II	£274.99*	£314.99*
PowerShot S50 Black	£174.99*	£198.99*

Other Deals: **NEW** PowerShot S50 Black + 1GB Microdrive **£484.99***
PowerShot G5 + 1GB Microdrive **£599.99***
PowerShot A70 + CP200 Direct Printer Kit **£339.99***

Please call us/ see website for all other printers and accessories

Other Canon Cameras/Printers/ Accessories

35mm SLR CAMERAS	FLASHGUNS / ACCESSORIES
EOS IV HS	MT-24 EX Macro Flashgun £629.99
EOS IV Body	MR-14 EX Macro Ringflash £359.99
EOS 3 Body	550EX Speedlite £249.99
EOS 30+EF 28-90	550EX Speedlite + ST-E2 £379.99
EOS 30 Body	420EX Speedlite £179.99
EOS 300v Body	220EX Speedlite £116.99
EOS 300v + 28-90 USM	ST-E2 Speedlite transmitter £144.99*
EOS 300v + 28-90 NON-USM	RS-60N3 £39.99
	TC-80N3 £39.99
	RS-60E3 £23.88
	Angle Finder C £144.99*
	BG-ED3 Grip £199.99*
	BATTERIES
	NB-1LH (all Digital IXUS) £25.00*
	NB-2L (S30, S40, S45, S50) £35.00
	BP-511 (300D, 10D, G5, G3) £54.99
	NP-E3 (EOS 1D/ 1Ds) £94.99*
	WIDE/TELE LENSES
	LA-DCS8B (Lens Adaptor G3) £15.00
	WC-DCS8N (Wide lens G3) £94.00
	TC-DCS8N (Tele lens G3) £72.00
	Wide + Tele + Adaptor (G3) £170.00*
	LA-DCS8 (Lens Adaptor G2) £14.99
	TC-DCS8 (Tele lens for G2) £62.00
	WC-DCS8 (Wide lens for G2) £99.00

MEMORY CARD PRICE CRASH!!	
128MB Compact Flash £24.00	512MB Microdrive £79.00*
256MB Compact Flash £45.00	1GB Microdrive £120.00*
512MB Fast CF £104.99*	1GB Microdrive+adaptor £135.00*
1GB Compact Flash £199.99*	IBM PCMCIA Adaptor £20.00*

115 Lower Church Road
BURGESS HILL
West Sussex, RH15 9AA
16 The Broadway
HAYWARDS HEATH
West Sussex, RH16 3AL

PARK
CAMERAS

whether you visit our stores, call us or buy online,
you can always be sure of a great deal and superb service
visit us online at www.parkcameras.co.uk or
Tel: 08450 580 477
(Calls charged at local rates)

WHY BUY FROM PARK CAMERAS?

Canon
FUJIFILM
Nikon
OLYMPUS
SONY

EOS AND DIGITAL PRO DEALER
DIGITAL IMAGING DEALER
PROFESSIONAL DEALER
PIX DEALER
GO CREATE DEALER

- Fantastic Low Prices - Expert Advice (look at the proof!!):

THE ONLY UK DEALER WITH ALL THESE ACCREDITATIONS!!

+ WINNER OF OVER THIRTY AWARDS!

NEW Digital SLR Cameras

	SRP	OUR PRICE
Nikon D2H	£2799.99	£2549.00
* 1st D Body only	£1400.00	£1179.99
* 1st D + D-BG1 Grip	£1569.99	£1299.99
* 1st D + 1GB Microdrive	£1599.99	£1299.99
* 1st D + 18-35mm f/4.5-6.3 [equiv. to 27-53mm]	£1549.99	£1289.99
* 1st D + 18-35mm f/4.5-6.3 + 1GB Microdrive	£1749.98	£1409.99
* 1st D + 18-35mm f/4.5-6.3 + D-BG1 Grip	£1719.98	£1419.99
* 1st D + 24-30mm f/4.5-6.3 FA	£1899.99	£1549.98
* 1st D + DB Grip + AF 360FGZ Flash	£1799.99	£1449.99
* 1st D + 18-35mm f/4.5-6.3 + AF 360FGZ Flash	£1999.97	£1689.99

Olympus E-1 Body	£1808.83	£1399.00
E-1 Body + 14-54mm lens package	£1820.08	£1779.00
Olympus 50mm f/2.0 Macro	£390.10	£Phone
Olympus 50-200mm f/2.8-3.5	£779.03	£Phone
Olympus 300mm f/2.8	£518.05	£Phone

Nikon
D100



¥ 6.1 Mega pixels
¥ Built in speedlight

	SRP	OUR PRICE
D100 Body only	£1229.00	£1229.00
D100 + 18-35mm	£1499.99	£1499.99

FUJIFILM S2 PRO



¥ 6.1 Mega pixel CCD
¥ 12.1 Mega pixel output
¥ large 4,256x2848 image size
¥ Firewire and USB interface
¥ Compatible with Nikon lenses

	SRP	OUR PRICE
S2 Pro Body only	£1349.99	£1049.99
S2 Pro Body+1GB Microdrive	£1549.99	£1160.00
S2 Pro+Battery Kit+1GB Microdrive	£1529.99	£1195.00
S2 Pro+Nikon AF-D 18-35mm	£1809.98	£1299.99*
S2 Pro+Battery Kit+1GB Microdrive + Nikon AF-D 18-35mm	£1909.98	£1449.00
S2 Pro+Nikon AF-S 24-85mm	£1699.98	£1390.00
S2 Pro+Nikon AF-S 17-35mm f/2.8	£2799.98	£2189.00

SONY
DSC VI



¥ 5.0 Million Effective Pixels
¥ 4x Optical zoom
¥ Full Manual control

	SRP	OUR PRICE
DSC VI	£549.99	£413.00*
+ 256MB Pro + VHB Case	£510.00*	£510.00*

OLYMPUS
Camera C-5050



¥ 5.0 Million Effective Pixels
¥ 1x Optical zoom
¥ Super bright F1.8 lens

	SRP	OUR PRICE
C-5050	£599.99	£399.00*
+ olympus leather case	£414.00*	£414.00*

FUJIFILM
F700



¥ 3.2 Million Effective Pixels
¥ 3x Optical zoom
¥ Cradle for easy download

	SRP	OUR PRICE
F700 + Fuji Case Bundle	£399.00*	£399.00*
F700+128MB +Case	£419.99*	£419.99*

CASIO
EXILIM EX24



¥ 4 Mega Pixel CCD
¥ 3x Optical Zoom
¥ USB Cradle

	SRP	OUR PRICE
EX24	£378.99	£309.99*
+ 256MB + Casio Leather Case	£390.00*	£390.00*

PENTAX
Optio 450



¥ 4 Mega Pixel CCD
¥ 5x Optical Zoom

	SRP	OUR PRICE
Optio 450	£499.99	£299.00*
+ 256MB + Cruiser (Reader)	£380.00*	£380.00*

OLYMPUS
Camera C-50



¥ 5.0 Million Effective Pixels
¥ 3x Optical zoom
¥ Compact Metal Body

	SRP	OUR PRICE
C-50	£429.99	£334.99*
+ olympus leather case	£344.99*	£344.99*

SONY
DSC U60



¥ 2.0 Mega pixels
¥ Waterproof to 5 feet!!
¥ Includes rechargeable NiMH batteries

	SRP	OUR PRICE
DSC U60	£249.99	£173.00*

PENTAX
OPTIO 33L



¥ 3.2 Million pixels
¥ 3x optical zoom

	SRP	OUR PRICE
OPTIO 33L	£249.99	£169.00*
+ 128MB CF + case	£199.00*	£199.00*

Pay As You Talk
Picture Phones

- all at crazy low prices!
Sagem MYX6 £159*
Motorola V525 £179*
Sony T610 £200*
Sharp GX10i £219*

other bargain phones:
Nokia 3310 £59*
Sony J70 £69*
Motorola C333 £79*

OTHER DIGITAL CAMERAS

FUJIFILM	Nikon	OLYMPUS	PENTAX	SONY	CASIO
A202 £100* 2100 £154*	C350 £168*	C350 £168*	Optio 33L £169*	DSC U30 NEW £149*	LS633 £259*
A204 £129* 3100 £239*	C350+leather case £175*	C350+leather case £175*	Optio 33WR £259*	DSC U50 NEW £179*	DX4530 £259*
A203 £135* 3Q £249*	MJU 300 £240*	MJU 300 £240*	Optio 5 £249*	DSC U60 NEW £173*	DX6340 £209*
A205 £190* 3Q+spare batt. £269*	MJU 300+Oly case £250*	MJU 300+Oly case £250*	Optio 54 £215*	DSC F77 - hurry £249*	DX6440 £209*
A210 £194* 4300 £239*	MJU 400 £289*	MJU 400 £289*	Optio 55 £219*	DSC EX77 £239*	DX6490 £239*
A303 £190* 4500 £244*	MJU 400+Oly case £305*	MJU 400+Oly case £305*	Optio 550 £239*	DSC P32 £145*	PRO 14N (1) £389*
A310 £229* 5400 £309*	C720U SPECIAL £259*	C720U £259*	Optio 555 £425*	DSC P52 £159*	
S3000 £242* 5400+256MB £349*	C720U + NX500 £339*	C720U + NX500 £339*	*1st D see above	DSC P72 £194*	
F410+cradle £309*	C750U £369*	C750U £369*		DSC P92 £269*	
S5000 NEW £349*	C750U+leather case £389*	C750U+leather case £389*		DSC P8 £229*	EX-S2 (1) £150*
F700 NEW £395*	C50 £345*	C50 £345*		DSC P10 £289*	EX-S20 £169*
S602 £400*	C50+leather case £45*	C50+leather case £45*		DSC P12 £239*	EX-Z3 £269*
M603 + 512MB £339*	C500 £300*	C500 £300*		DSC V1 £413*	EX-Z4 £310*
S7000 NEW £547*	C5050 £389*	C5050 £389*		DSC F717 £529*	EX-Z4+Battery
S7000 + 1GB MD £660*	C5050+leather case £399*	C5050+leather case £399*		DSC F828 NEW £749*	+Leather Case+Metal
S2 Pro Body see above	C5060 £499*	C5060 £499*		MVC FD200 £235*	Strap+256MB £399*
	D1X BODY £3199*	E1 Digital SLR see above		MVC CD500 £419*	

DIGITAL CAMERA ACCESSORIES

BATTERIES

Canon NP-E1 £1 for (19.99)	£99.99
Canon NB 1LH	£29.99
Canon NB 2L	£35.00
Canon BP 511	£54.99
Fuji NP40 or NP80	each £39.99
Unioss EN EL1 (from Nikon UK)	£29.99*
Nikon EN EL1	£39.99
Nikon EN EL3	£49.99
Nikon EN 4	£89.99
Pentax D-Li2	£29.99
Sony NP FM50	£49.99
4 x NiMH AA 2000mAh	£12.99*
Hahnel 4 x AA 2000mAh+charger	£21.99*

PRINTERS/ SCANNERS

Canon CP200 unboxed	£120.00*
Canon CP300	£175.00
Canon BJ 1865	£159.00*
Canon BJ 1905D	£239.00*
Canon BJ 1965	£279.00*
Canon BJ 5000 A3 STAR BUY	£249.00*
Canon BJ 19100	£379.00*
Fuji NX500 *STAR BUY*	£95.00*
Fuji NX500 + 100 sheets paper	£135.00*
Fuji CX400	£309.99*
Fuji CX400 + 2 extra Rolls paper	£339.99*
Epson 925	£129.00*
Epson 2100	£534.00
Canon 5000F	£159.00
Canon 8000F	£185.00
Canon 9900F	£279.00*
Epson Perfection 3200 Photo	£295.00*
Nikon Coolscan IV	£389.00*

CARD READERS

Fuji DPC-R1 xD/ SmartMedia	£25.99
Sandisk USB 2.0 Compact Flash	£29.99*
Sandisk USB 2.0 6 in 1	£29.99*
Sandisk USB 2.0 8 in 1	£Phone
Sony MSAC US1A (for Sony MSA)	£20.00*
Sony MSAC US20	£45.00*

CASES

Olympus MJU300/400 Leather Case	£14.99*
Olympus E20 Pro Case	£29.99*
Olympus Leather Card Case	£9.99*
Lowepro D Res 20AW	£15.00
Lowepro D Res 25AW	£16.00
Sony LC5 PEA (P72/P92/P10)	£18.99*

We stock virtually every accessory including a range of CASES - see our website or call if you can't see it here

please call for cables, inks, paper, etc!

MEMORY CARDS AT LOW PRICES!!

COMPACT FLASH	SONY MEMORY STICK	SMART MEDIA
Fuji 64MB £15.00	16MB £17.00	Fuji 64MB £15.00
Fuji 128MB £24.00	32MB £20.00	Fuji 128MB £20.00
Fuji 256MB £43.00	64MB £38.00	Sandisk 128MB £35.00
Fuji 512MB £83.00	128MB £60.00	
Fuji 1GB £104.99	256MB £104.99	
Fuji 2GB £200.00	512MB PRO £180.00*	
2 x FUJI 512MB (20x speed) £33.00	1GB PRO £360.00*	
2 x SANDISK 64MB £29.99		
SANDISK 128MB £35.00		
SANDISK 128MB ULTRA £39.99		
SANDISK 256MB £59.99		
SANDISK 256MB ULTRA £104.99		
SANDISK 512MB £130.00		
SANDISK 512MB ULTRA £149.00		
SANDISK 512GB ULTRA II £204.99		
SANDISK 1GB £249.99		
SANDISK 1GB ULTRA £249.99		
SANDISK 1GB ULTRA II £299.00		
1GB £120.00		
1GB TRAVEL KIT £135.00		

NEED MORE MEMORY? Look no further..

MORE REASONS TO BUY FROM PARK CAMERAS:
- lowest prices in the UK for named quality memory cards?
- quality branded memory (no cheap cards that go wrong after 2 or 3 uses)
- only £3.99 for NEXT WORKING DAY DELIVERY - any quantity

1GB MICRODRIVE £120.00	SONY 128MB MEMORY STICK £43.00	SANDISK 128MB SECURE DIGITAL £43.00*
---------------------------	-----------------------------------	---

INNOPLUS 20GB PHOTOTAINER
Includes LCD Screen for backing up and viewing your photos when you're out and about!
£319.00*

order on line at: www.parkcameras.co.uk
or call: 08450 580 477

All prices include VAT @ 17.5% Opening times Monday-Saturday 9:30-5:30pm. We accept Visa, Mastercard, Switch. Alternatively, send cheque to Park Cameras Ltd, 115 Lower Church Road, Burgess Hill, West Sussex, RH15 9AA. Figures in Brackets indicate stock level held at unrepeatable prices at time of going to print. NB Goods will not necessarily have been sold at SRP for 28 days prior to this. Prices correct at time of going to press, check on website for latest prices. E&OE. * - Please mention "Digital Camera Magazine" for this special price

Next day delivery
Memory cards £3.99
Cameras/Lenses £6.99
Printers/Scanners £9.99

Ansmann DIGISPEED 4

The DIGISPEED 4 is Ansmann's most advanced and fastest AA and AAA battery charger to date...

With 250% more current charge than previous models it can fully charge a set of 2200mAh cells in 1.3 hours. The microprocessor controlled monitors each individual cell and it built in fan improves ventilation and prevents over heating of the cells. Not only can the DIGISPEED 4 charge cells via a standard mains supply but also comes complete with a DC adapter for vehicle charging through a vehicle cigarette lighter.



features

- Ultra-fast, around 1.5 hour for 2200mAh
- Microprocessor controlled, intelligent charger
- Individual supervision - each battery is charged and monitored independently
- Faulty cell detection
- Auto-diagnosis of inserted cells
- Fan-cooled
- Complete with 4 Ansmann AA 2200mAh batteries
- 12V DC car adapter included

£49.95

Ansmann DIGICAM Power Set

The 'Go Anywhere' AA NiMH battery / charger set

The PowerSet 4 consists of an ultra fast intelligent charger which can fully charge a set of 2000mAh AA NiMH batteries in under 3 hours. A built in Microprocessor monitors and controls each individual cell and signals when each cell is fully charged. With a wide range of power inputs plus 4 interchangeable primary plugs it can be used virtually anywhere in the world. Comes complete with 4 high-powered 2000mAh NiMH batteries and interchangeable plugs for use in UK, Europe, USA, Japan and Australia.



features

- Comes complete with 4 high-powered 2000mAh NiMH batteries
- Super fast charger - charges 2000mAh cells in a little over 3 hours
- Each cell is individually charged and monitored
- A separate LED for each cell ensures indication when EACH individual cell is fully charged
- Wide range power input 100-240V for worldwide use
- Supplied with interchangeable primary plugs
- Discharge facility
- Faulty cell detection

£44.95

Ansmann PHOTOCAM Plus Charger

The PHOTOCAM Plus Charger is a fast charger for AA NiMH rechargeable batteries. It comes supplied with 4 x high voltage 2000mAh NiMH AA batteries which are specifically designed for use with high speed digital cameras. The charger will fully charge a set of batteries in approximately 1.0 hours and is timer controlled to avoid the risk of over-charging.



features

- Fast charge, approx. 1.0 hours for 2000mAh cells
- Timer controlled
- Overcharge protection
- Charging indicator

£15.95

Ansmann Energy 8 & Energy 16

The Ansmann Energy 8 and Energy 16 universal voltage battery chargers offer the most advanced charging control available for all the most commonly used sizes of Nickel Metal Hydride and Nickel Cadmium batteries used in small appliances today - AAA, AA, C, D and 9V. Just plug it in anywhere in the world and it charges all these battery sizes very rapidly and automatically, each to its full capacity. It will charge AA (800mAh NiMH) cells in a little over three hours.

* Batteries not included



Energy 8*



Energy 16*

features

- Accepts 8 AA or AAA, or four C or D, plus two 9V cells
- Charges AA cells in 3 hours
- Individual cell supervision
- charging & faulty cell detection
- Discharge function
- Worldwide use
- 3 year warranty

features

- Accepts 12 AA or AAA, or six C or D, plus two 9V cells
- Charges 12x AA cells in 3 hours
- Individual cell supervision
- charging & faulty cell detection
- Discharge function
- Worldwide use
- 3 year warranty

Energy 8
£49.95

Energy 16
£84.95

Ansmann Universal AC Mains Adapter APS1612

The APS1612 Universal AC Mains Adapter is a compact multi-voltage AC adapter designed to power digital cameras. It has an adjustable DC output from 1.2 to 12V (continuous) and can power any device drawing up to a maximum 1600mA. Comes supplied complete with plug-in connectors for UK, Europe, USA, Japan and Australia as well as adapters to fit most digital cameras.



features

- Ideal for powering most digital cameras
- Selectable output voltage to match camera requirements
- Includes 8 popular sizes of connector tip
- Universal input voltage for use worldwide
- Complete with travel-size plug system for use in UK, Europe, Australia and USA/Japan

£19.95

NEW Ansmann Power Pack Set 2 plus

The POWER PACK SET 2 plus is a compact high-powered battery pack which allows you to keep shooting all day as you never run out of power. It contains 4 x high capacity 1300mAh batteries. It comes complete with a leather case with belt clip and a worldwide multi-voltage intelligent ACS 410 charger which fully charges the battery pack in 8 hours. You can also charge the battery whilst driving by plugging into your car's cigarette lighter socket. The Power Pack is supplied with adapter cables to fit most digital cameras.



features

- 3,000mAh capacity
- Clip power pack to your belt in leather case
- Adapter cables included to fit most digital cameras
- Wide range power input 100 - 240V for worldwide use
- Supplied with interchangeable primary plugs
- 12 - 32V DC power input for cars, trucks, caravans etc
- ACS 410 intelligent charger

SPECIAL OFFER

Comes Complete with additional 1300mAh Battery giving 6300mAh of shooting power in total

£69.95

Limited Offer While Stocks Last

Ansmann 2200mAh AA NiMH Batteries

The Ansmann 2200mAh NiMH AA batteries offer the ultimate in AA battery technology and have been specially designed for high drain appliances such as digital cameras.



* Pack of 4

£12.99*

Ansmann 1800mAh AA NiMH Batteries



* Pack of 4

£8.99*

NEW Ansmann AA Photo Alkaline Batteries

features

- Specifically designed for digital cameras
- High capacity - low replacement
- Must for backing when in a photo shoot



* Pack of 4

£3.29*

NEW Ansmann Energy Check

features

- Accurate test of rechargeable and disposable cells
- Electronic check of remaining capacity
- For testing AA, AAA, C, D, 9V Cells



£13.95

NEW Ansmann Lithium Batteries

features

- Professional photography grade cells
- Top quality - high capacity
- Low self discharge
- Wide operating temperatures



CR123A	£5.99
CR2	£5.99
3CR5	£9.99
CNP2	£9.99

Wacom Graphire3 Studio

New



**Advanced digital
photo editing**

Graphire3 gives you the control you need to quickly and easily edit your digital photos. It works great with any software your photos come with and runs on both PCs and Macs. Quickly and easily edit your digital photos using the control of the Graphire3 pen and your included copy of Adobe Photoshop Elements 2.0. Selectively apply high-quality photographic effects using the included penPoint LT software.

Only £99.99

Includes copy of Adobe Photoshop Elements 2.0 worth £79.99

Hahnel PowerStation HSC-104

New

The Hahnel PowerStation HSC-104 is a fast-charged battery charger for Ni-Mh batteries which charges 4 x AA 2000mAh batteries in only 3 hours. The dual-portable PowerStation HSC-104 charger is suitable for worldwide use. With the included multi-voltage switch mode power supply (100-240V) and the 11V car jack you can charge batteries from the mains or your car cigarette lighter.

Features

- Charges up to 4 AA Ni-Mh batteries.
- Only 3 hours to charge 2000mAh batteries.
- Mains power supply or 11V DC input for use in car, caravan, boat.
- Multi-voltage switch mode power supply for worldwide use (100-240V).

Only £34.99

Complete with 4 x Hahnel Ni-Mh 1.25V 2350mAh batteries.



Apacer Disc Steno CP100

Write CD's direct from Memory Cards



The DISC STENO CP100 is a portable mode burner providing a 6-in-1 stand reader and a CD-RW drive that can be used to copy files from the removable media used in digital cameras, digital video cameras and MP3 players on to a CD without the need for a computer. Ideal for backing up important image files on to a CD to free up space on your camera's memory card.

Only £199

Now comes with FREE car charger worth £19.99.

Sandisk ULTRA II CompactFlash

New

Ready for rapid-fire shooting...



Faster write speed means less time between shots.

The new Sandisk Ultra II CompactFlash are the ultimate memory cards for your most demanding photo shoots. With a minimum sustained write speed of 9 megabytes (MB) per second and a read speed of 10 MB per second, they take advantage of the advanced features of high megapixel digital cameras allowing you to capture those high-resolution images even faster.

High-density flash memory and optimized controller technology lets you save large image files faster.

256MB	£79.99
512MB	£149.99
1GB	£299.99

Sandisk Digital Photo Viewer

View your digital camera pictures directly on your TV



Sandisk have introduced the Sandisk Digital Photo Viewer (DPV) that provides a simple, fast and convenient way to view photos taken with a digital camera on a television screen. Digital photographs can now instantly view and share their digital images with family and friends.

Features

- Small and compact - about the size of a mini VCR.
- Compatible - supports all popular digital camera media formats, including CompactFlash, SmartMedia, MemoryStick, SD and MMC.
- Supports JPEG files at resolutions up to 6 megapixels.
- Remote control included.
- Backed by Sandisk's industry-leading two-year warranty.

Was £59.99

Now £39.99

SmartDisk FlashTrax 30GB

**Ultimate handheld
storage device**

FlashTrax is an innovative handheld device that allows you to expand the use of your digital camera and multimedia files. With simple controls and high-speed transfers, FlashTrax allows you to store, view, and play all sorts of image/media files, all in one intuitive, portable device. Why carry piles of flash media with you? When you've filled up your media card, just copy it to FlashTrax, erase it, and keep on shooting! When you're done, just connect FlashTrax to your computer to view, print, or store your pictures. With its large, vibrant screen (2.5" colour screen), FlashTrax is great for previewing your digital images or sharing them with the world.

Only £299



SmartDisk SmartScan 2700

**Affordable 35mm
film scanning**



The SmartDisk SmartScan 2700, 25mm film scanner, captures 2700 dots per inch (dpi), giving you more than three (3) times the resolution of the average desktop scanner. It recognizes over 66 billion distinctive colours and captures up to 9.6 million pixels per image, giving you impressive shadowing, highlights and other details. To scan, simply insert your film strip or mounted slide into the viewing window and press one button. It's that easy! You can scan true 2700 dpi resolution images in just 45 seconds.

Only £149.99

Includes copy of Adobe Photoshop Elements

Tetenal High Glossy Paper Special 264gsm



**High quality glossy
inkjet paper**

The "Award Winning" 264g High Glossy Paper Special is characterised by superb image whites and brilliant, intense colour reproduction. Thanks to its genuine photographic paper weight and special PE coating, it can no longer be distinguished from classic photographic paper, either visually or to the touch.

Exclusive Offer
50 Sheets for only £9.99

FUJIFILM

135-36 just £3.29 120 roll just £2.29

Brand New Award winning
Velvia 100F Summer Launch Offer!
Extra Value 20 Packs

Fuji Colour Slide Film
 Sensia 100 135-36 £35.99
 Provia 100F 135-36 £59.99
 Provia 400F 135-36 £68.99
 Velvia 50 120 Roll £37.99
 Velvia 50 135-36 £60.99

NEW Extra Value 10 Packs
 Sensia II 100 135-24 £13.99
 Sensia II 200 135-24 £14.49

Extra Value 20 Packs
Fuji Colour Print Film
 Supria 100 135-36 £22.79
 Supria 200 135-36 £23.79
 Supria 400 135-36 £26.79
 Supria 800 135-36 £42.99
 Realia 100 135-36 £32.99

Still Amazing deals on Single packs!

Memory Cards
 We stock a full range incl: CompactFlash SmartMedia, MultiMedia Memory Stick and Secure Digital and NEW XD Picture card

UK'S LOWEST PRICES?

CF 128 £17.99
 SM 128 £29.99
 MM 128 £23.99
 MS 128 £34.79
 SD 128 £30.99
 XD 128 £35.49
 XD Card Protector Holds 8 XD cards only

Card Caboodle - safe storage for your SM, CF, MM, SD, MS & XD CARDS

Digital Camera Batteries
 Prices from £12.99

Ni-Mh Charger New Slimline Model with just £14.95

WOW!
 Includes 4 of the brand new 2000 mAh batteries and also 4 of 1850 mAh batteries fit!

ULTRA HI-POWER RECHARGEABLE
 Unirase Ultrafast Charger just £15.49!

UV, Polarising, Lens Hoods, All Sizes, All Stocked

Digital Camera Screen Shades from £12.99

Photo & Digital Accessories
 We carry hundreds of accessories for your camera including innovative and hard to find items. Choices include Filters, Cases, Tripods, Lens caps, Cleaning Cloths, Camera supports, Lens Hoods, Cable releases, Flash Connectors, Studio stands and Umbrellas, etc... Please go online for full range!

Hama Photographers Rucksack just £21.99

35mm Film Store £2.99
 Hama Star Tripod £17.99

P&P NOW ONLY 95p PER ORDER ONLINE

IT PAYS TO SHOP ONLINE!
 FIND THE VERY BEST DEALS
 CHECK OUT OUR LATEST PRODUCTS
 BROWSE AT YOUR LEISURE

P&P just 95p per order Fast and Easy to Use
 Full range of more than 10,000 products
 Now including DVDs and music CDs!
 No Minimum Order Value
 Open 24 hours 7 days and 365 days a year
GO ONLINE TODAY AND SEE FOR YOURSELF!

SAVE UP TO 85% ON YOUR BATTERIES!
 Insist on Brand New PowerMax3 from Panasonic
 Incredible performance at really incredible prices!
No.1 for More of the UK's Lowest Prices!

AA @ £0.88p per 4
 AAA @ £1.10 per 4
 C Cell @ £1.49 per 2
 D Cell @ £1.89 per 2
 9 Volt @ £1.59 each

We also stock a full range of Duracell, Energizer & Fujitsu

EXCLUSIVE PRODUCTS
 Direct from the USA to 7dayshop.com
 These superb battery safe cases keep your batteries safe and ready for use
 Available for AA, AAA, 123A & CR2 Lithium
 All at just £2.49 each
 Energizer AA Lithium 4 Pack SPECIAL just £5.49

7dayshop.com

Save up to 85%

on UK prices

VIVITAR V3000 SLR
 UK'S BEST VALUE 35MM SLR CAMERA
 A superb value manual SLR camera from Vivitar equipped with case, strap and battery - great for starters!

KODAK FUN FLASH £3.79
FUJI 27EXP QUICKSNAP £4.25
SINGLE USE SPECIAL £2.05
ILFORD B&W HP5 24EXP £4.99
OLYMPUS ZOOM 115 £125.00
OLYMPUS ZOOM 80 £97.00
OLYMPUS MUJI £73.95
VIVITAR BV 35 £12.99
HALINA TEGRA 290 £15.99

FANTASTIC PRICES ON RECORDABLE MEDIA!
 CDR & CDRWs, DVD-R, DVD+R, DVD-RW, DVD-RAM

Look at these prices!
 Fantastic value on recordable media

DVD-Rs DVD-RWs & DVD-RAM
 DVD+R (plus) 4.7Gb 120min (5) £3.99
 DVD+R (plus) 4.7Gb 120min (5) £3.99
 DVD-R (minus) 4.7Gb 120min (5) £2.50
 DVD-R (minus) 4.7Gb 120min (5) £2.50
 DVD-RW (minus) 4.7Gb 120min (5) £12.99
 DVD-RAM 4.7Gb 120min (5) £17.99
 DVD-R 4.7Gb 120min (5) £8.00
 BRAND NEW Digital Mini DVD-R 30 Min / 1.4Gb £5.49
 BRAND NEW Digital Mini DVD-RAM 60 Min / 2.8Gb £11.99

6 IN 1 USB2.0 CARD READER/WRITER
 now priced at £16.49 (was £21.99)
 Single Drives are now at £9.49

MEMORY CARD READERS/Writers
 CF/SD Dual Reader £15.99
 3 in 1 USB Drive £25.99
 Single Drive (USB) for SD CF MM SD MS £3.49 each

Full range of Maglite and accessories

Victorinox Swiss Pen Knives massive range in stock!

BRAND NEW
 Superb LED Lenser Torches just arrived
 brilliant lighting and superb value prices!

Tool Logic - Credit Card Multi-Tools
 Direct from the USA!

EYETX BINOCULARS
SUPERB OPTICS AT FANTASTIC PRICES!

10X50 SPORT £17.99
 12X50 SPORT £17.99
 13X22 ZOOM COMPACT £24.99
 NEW 12X25 COMPACT £14.99
 8X21 COMPACT £3.99
 10X25 COMPACT £3.99
 NEW 8X40 SPORT £4.99
 8X18 WATERPROOF COMPACT £13.99

EYETX are the UK's Best Value Binoculars!
 ...superb quality optics at simply incredible prices!

KODAK ULTRA 35EXP FLASH £4.99
FUJI MARINE 5M W-PROOF £7.25
KODAK AQUA 10M W-PROOF £5.99

GO TO 7DAYSHOP.COM TO FIND SOME MORE GREAT DEALS

Amazingly low prices on DVD

DVD+R (plus) 4.7Gb 120min (5) £3.99
DVD+R (plus) 4.7Gb 120min (5) £3.99
DVD-R (minus) 4.7Gb 120min (5) £2.50
DVD-R (minus) 4.7Gb 120min (5) £2.50
DVD-RW (minus) 4.7Gb 120min (5) £12.99
DVD-RAM 4.7Gb 120min (5) £17.99
DVD-R 4.7Gb 120min (5) £8.00
BRAND NEW Digital Mini DVD-R 30 Min / 1.4Gb £5.49
BRAND NEW Digital Mini DVD-RAM 60 Min / 2.8Gb £11.99

AMAZING Kodak FILM PRICES

New MAX Gold 400 135 36
 SPECIAL OFFER
£1.65
 TCN 400asa
 135-36 Exposure
£1.49

Kodak High Definition Film
 135-24
 just £1.76
 135-36
 just £2.14

Introducing The Red Camera Support
 Protect from Corrosion
UK's Lowest Price £9.99!

LensPen™
 UK RRP £8.99
 7dayshop price just £5.99

ILFORD VALUE TRI-PACK SPECIALS
 RPS or RPS - 125-36 just £4.25 per 3 pack!
 Don't delay - only limited stock available
 Kodak and Fujitsu Value Red Film - New in stock!

KODAK	FUJI	ILFORD	PANASONIC	AGFA	DIGITAL	ACCESSORIES & CARE	INK & PAPER FOR EPSON, HP, CANON & LEXMARK
200 £1.35 £1.65	100 £1.09 £1.10 £1.24	24 36 £1.39 £1.69	128 £17.99	12 24 36 £1.15 £1.35	32 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
400 £1.55 £1.87	200 £1.09 £1.15 £1.29	120 36 £1.29 £1.49	256 £17.99	200 £1.15 £1.35	64 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
800 £1.85 £2.17	400 £1.15 £1.35 £1.44	120 36 £1.29 £1.49	512 £17.99	400 £1.15 £1.35	128 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
NEW ROYAL SUPRA 36	800 PRESS £2.36	120 36 £1.29 £1.49	1024 £17.99	800 £1.15 £1.35	256 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
200 £1.68	1600 SUPER G £2.45	120 36 £1.29 £1.49	2048 £17.99	1600 £1.15 £1.35	512 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
400 £1.68	100/400 120 £1.29	120 36 £1.29 £1.49	4096 £17.99	100/400 APX £1.29	1024 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
800 £1.84	REALA 24 36 £1.29	120 36 £1.29 £1.49	8192 £17.99	200 PRO PAID £4.79	2048 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
PORTRA NC VC	100 £1.79 £1.75 £1.69	120 36 £1.29 £1.49	16384 £17.99	400 PRO PAID £4.79	4096 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
160 36 £2.20 £2.29	NEW 20 PACK OFFER	120 36 £1.29 £1.49	32768 £17.99	800 PRO PAID £4.79	8192 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
400 36 £2.49 £2.68	100 (120) £1.29 £1.29	120 36 £1.29 £1.49	65536 £17.99	1600 PRO PAID £4.79	16384 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
160-120 £1.99 £1.89	PRO NEG 36 120	120 36 £1.29 £1.49	131072 £17.99	3200 PRO PAID £4.79	32768 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
400-120 £2.25 £2.45	NPS £2.20 £1.79	120 36 £1.29 £1.49	262144 £17.99	6400 PRO PAID £4.79	65536 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
NEW UC400 6x6 £10.99	NPC £2.29 £0.79	120 36 £1.29 £1.49	524288 £17.99	12800 PRO PAID £4.79	131072 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
135-36 £2.69 £2.35	NPH £2.29 £1.69	120 36 £1.29 £1.49	1048576 £17.99	25600 PRO PAID £4.79	262144 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
EBX-100 £1.89	PRO NEG 36 120	120 36 £1.29 £1.49	2097152 £17.99	51200 PRO PAID £4.79	524288 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
EBX-100 £1.89	NPL 5x4 £13.99 £2.15	120 36 £1.29 £1.49	4094304 £17.99	102400 PRO PAID £4.79	1048576 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
ED-200 £2.55	NPS 5x4 (10) £14.99	120 36 £1.29 £1.49	8188608 £17.99	204800 PRO PAID £4.79	2097152 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
ED-400 £2.70	FUJICHROME PP NPP	120 36 £1.29 £1.49	16377216 £17.99	409600 PRO PAID £4.79	4094304 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
ES-100 £2.60 £3.95	SENSIA 27 36	120 36 £1.29 £1.49	32754432 £17.99	819200 PRO PAID £4.79	8188608 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
ESW-100 £3.00 £3.95	200-36 £2.25 £1.85	120 36 £1.29 £1.49	65508864 £17.99	1638400 PRO PAID £4.79	16377216 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
EVS-100 £3.25 £4.25	200-36 £2.45 £2.35	120 36 £1.29 £1.49	131017728 £17.99	3276800 PRO PAID £4.79	32754432 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
ER-INFRA RED £8.75	400-36 £5.00 £2.79	120 36 £1.29 £1.49	262035456 £17.99	6553600 PRO PAID £4.79	65508864 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
KODACHROME 36	PRO SLIDE 36 120	120 36 £1.29 £1.49	524070912 £17.99	13107200 PRO PAID £4.79	131017728 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
64 KR £5.69	PROF 100 £3.09 £2.09	120 36 £1.29 £1.49	1048141824 £17.99	26214400 PRO PAID £4.79	262035456 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
200 KL £5.74	PROF 400 £3.55 £2.30	120 36 £1.29 £1.49	2096283648 £17.99	52428800 PRO PAID £4.79	524070912 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
KMA464P CINE £8.49	VELVIA 50 £3.09 £1.99	120 36 £1.29 £1.49	4092567296 £17.99	104857600 PRO PAID £4.79	1048141824 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
BW 120 36	ASTIA 100 £3.09 £2.09	120 36 £1.29 £1.49	8185134592 £17.99	209715200 PRO PAID £4.79	2096283648 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
TMAX 14 £1.69 £1.79	RTP 64 £3.65 £2.35	120 36 £1.29 £1.49	16370269056 £17.99	409430400 PRO PAID £4.79	4092567296 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
TMAX 3200 £2.30 £2.30	PROF 100 5x4 £15.99	120 36 £1.29 £1.49	32740538112 £17.99	818860800 PRO PAID £4.79	8185134592 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
TR-X £1.85 £1.49	VELVIA 50 5x4 £18.99	120 36 £1.29 £1.49	65481076224 £17.99	1637721600 PRO PAID £4.79	16370269056 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
TON-400 £1.79 £1.69	NEXIA APS 25 40	120 36 £1.29 £1.49	130962152448 £17.99	3275443200 PRO PAID £4.79	32740538112 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
TONAPS-25 £1.69	200 £1.45 £1.69	120 36 £1.29 £1.49	261924304896 £17.99	6550886400 PRO PAID £4.79	65481076224 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
PORT 400 £2.25 £2.49	NEOPAN 35 120	120 36 £1.29 £1.49	523848609792 £17.99	13101772800 PRO PAID £4.79	130962152448 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
HE-NEFRARED £7.75	400 £1.49 £1.75	120 36 £1.29 £1.49	104769721984 £17.99	26203545600 PRO PAID £4.79	261924304896 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
ADVANTAGE 25 40	NEOPAN 35 120	120 36 £1.29 £1.49	209539443968 £17.99	52407091200 PRO PAID £4.79	523848609792 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
2003 PH £2.85 £6.75	400 £1.79 £1.59	120 36 £1.29 £1.49	409078887936 £17.99	104814182400 PRO PAID £4.79	104769721984 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
TURA NEG 24 36	ACROS £1.89 £1.69	120 36 £1.29 £1.49	818157775872 £17.99	209628364800 PRO PAID £4.79	409078887936 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
100/200/400 £0.95 £1.05	INSTANT £2.89	120 36 £1.29 £1.49	163635551744 £17.99	409256729600 PRO PAID £4.79	818157775872 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
BW/100/400 £0.99 £1.19	INSTAX(20) £8.99	120 36 £1.29 £1.49	327271103488 £17.99	818513459200 PRO PAID £4.79	163635551744 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
BW400 C41 £1.59	INSTAX(20) £8.99	120 36 £1.29 £1.49	654542206976 £17.99	1637026905600 PRO PAID £4.79	327271103488 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
TURA SLIDE 36	INSTAX(20) £8.99	120 36 £1.29 £1.49	130908441344 £17.99	3274053811200 PRO PAID £4.79	654542206976 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99
100/200 £1.45	INSTAX M N (10) £3.99	120 36 £1.29 £1.49	261816882688 £17.99	655088640000 PRO PAID £4.79	130908441344 36 £12.48 £29.99	128 36 £12.48 £29.99	128 36 £12.48 £29.99

7dayshop.com

Save up to 85% on UK prices

01481 257336

www.7dayshop.com

Order by fax, 01481 258546.

Order by post to 7dayshop.com, Guernsey, GY6 8DN

many other products online

cameraWORLD **BEST Christmas DEALS**

Canon EOS 300D



MONEY SAVING BUNDLES:
300D/Canon 18-55mm f3.5-5.6 IS Lens + Spare Battery + Case... £1099.99
300D/18-55mm f3.5-5.6 IS Lens + High-Speed Reader/Spare Battery + Case... £1399.99
300D/18-55mm f3.5-5.6 IS Lens + 2x AA Batteries + Case... £1399.99
300D/18-55mm f3.5-5.6 IS Lens + 2x AA Batteries + Case... £1399.99

£844

With New Canon 18-55mm f3.5-5.6

OLYMPUS MJU-400D



Get heads turning with the new 400 Digital. Strikingly attractive, this weather-proof camera with full-metal body is the centre of attention in any situation.

£299.99

MONEY SAVING BUNDLES:
BUNDLE: MJU-400D, 128mb xD card, reader & Olympus leather case... £399.99

Konica KD-500z



One of the finest cameras in the digital range, the Konica KD-500z was the first to equip a camera with Konica's pace-setting Dual-Slot memory technology. So you can use both SD Memory Card and Memory Stick according to media.

£329.99

MONEY SAVING BUNDLES:
BUNDLE: KD-500z, 128mb SD card, reader, case & spare battery... £399.99

FUJIFILM Finepix F410



Premier Kit with Cradle
£299.99

While stocks last
MONEY SAVING BUNDLES:
BUNDLE: F410 (with cradle), 128mb xD card, Fuji spare batt. & Fuji case... £399.99

Canon Powershot A80



NEW

£329.99

BUNDLE: A80, 128mb CF card, reader, batteries, charger & case... £399.99

MINOLTA Dimage Xt



£249.99

BUNDLE: Xt, 128mb SD card, reader & Minolta case... £299.99

OLYMPUS MJU-300D



£249.99

BUNDLE: MJU-300D, 64mb xD card, reader & Olympus leather case... £299.99

SONY DSC-P8



£259.99

BUNDLE: P8, 128mb Memory Stick, reader & case... £309.99

Konica KD-310z



£249.99

BUNDLE: KD-310z, 64mb SD card, reader & case... £299.99

PENTAX Optio S4



£349.99

BUNDLE: S4, 128mb SD card, reader & case... £399.99

FUJIFILM Finepix A202



£199.99

BUNDLE: A202, 64mb xD card, reader, batteries, charger & case... £249.99

FUJIFILM Finepix S5000



£369.99

BUNDLE: S5000, 128mb xD card, reader, batteries, charger & Fuji case... £449.99

Canon Ixus II



£269.99

BUNDLE: 128mb SD card, reader & case... £329.99

MINOLTA Dimage E323



£179.99

BUNDLE: E323, 64mb SD card, reader, batteries, charger & case... £229.99

OLYMPUS Camedia C-350



£179.99

BUNDLE: C-350, 64mb xD card, reader & Olympus case... £239.99

SONY DSC-P92



£299.99

BUNDLE: P92, 128mb Memory Stick, reader & case... £349.99

Konica KD-510z



£399.99

BUNDLE: KD-510z, 256mb SD card, reader & case... £499.99

PENTAX Optio 450



£349.99

BUNDLE: 450, 128mb SD card, reader & case... £399.99

FUJIFILM Finepix A210



£199.99

BUNDLE: A210, 128mb xD card, PICTURE CRADLE, batteries, charger & case... £299.99

FUJIFILM Finepix S7000



£569.99

BUNDLE: S7000, 256mb CF card, reader, batteries, charger & case... £649.99

Canon Ixus i



NEW

£269.99

BUNDLE: 128mb SD card, reader & case... £329.99

MINOLTA Dimage F200 Indigo



£249.99

BUNDLE: F200, 64mb SD card, reader, batts, charger & Minolta case... £299.99

OLYMPUS Camedia C-750z



£399.99

BUNDLE: C-750z, 128mb xD card, reader & case... £479.99

SONY DSC-P72



£229.99

BUNDLE: P72, 128mb Memory Stick, reader & case... £319.99

Nikon Coolpix 2100



£169.99

BUNDLE: 2100, 64mb CF card, reader & case... £209.99

PENTAX Optio 555



£449.99

BUNDLE: 555, 256mb SD card, reader, spare battery & leather case... £569.99

FUJIFILM Finepix A303



£169.99

BUNDLE: A303, 128mb xD card, reader, batteries, charger & case... £249.99

KYOCERA Finecam SL300R



£299.99

BUNDLE: SL300R, 128mb SD card, reader & leather case... £349.99

Canon Ixus 400



£349.99

BUNDLE: Ixus 400, 128mb CF card, reader & case... £399.99

MINOLTA Dimage F300



£349.99

BUNDLE: F300, 128mb SD card, reader, batteries, charger & Minolta case... £429.99

OLYMPUS Camedia C-5060z



£529.99

BUNDLE: C-5060z, 128mb xD card, reader, 2x AA batteries & case... £609.99

SONY DSC-P32



£159.99

BUNDLE: P32, 64mb Memory Stick, reader & case... £199.99

Nikon Coolpix 3100



£259.99

BUNDLE: 3100, 128mb CF card, reader & case... £299.99

LEXAR MEMORY CARDS

Lexar High-Speed Digital Film:
64Mb 40x Speed CompactFlash... £99.99
256Mb 40x Speed CompactFlash... £199.99
512Mb 40x Speed CompactFlash... £299.99
1024Mb 40x Speed CompactFlash... £499.99
2048Mb 40x Speed CompactFlash... £799.99
Lexar High-Speed 12x cards:
128Mb 12x Speed CompactFlash... £29.99
256Mb 12x Speed CompactFlash... £49.99
512Mb 12x Speed CompactFlash... £79.99
Lexar High-Speed 15x cards:
128Mb 15x Speed CompactFlash... £24.99
256Mb 15x Speed CompactFlash... £44.99
512Mb 15x Speed CompactFlash... £69.99
1024Mb 15x Speed CompactFlash... £119.99
Lexar Secure Digital:
64Mb Secure Digital (SD) card... £24.99
128Mb Secure Digital (SD) card... £29.99
256Mb Secure Digital (SD) card... £44.99
512Mb Secure Digital (SD) card... £69.99
Lexar SmartMedia:
64Mb SmartMedia... £14.99
128Mb SmartMedia... £24.99
Lexar Card and USB Reader bundles:
128Mb & USB reader CF... £49.99
128Mb & USB reader SD... £59.99
256Mb & USB reader CF... £69.99
256Mb & USB reader SD... £79.99
512Mb & USB reader CF... £129.99
512Mb & USB reader SD... £199.99

FUJIFILM Finepix A203



£159.99

BUNDLE: A203, 64mb xD card, reader, batteries, charger & case... £229.99

KYOCERA Finecam S5R



£399.99

BUNDLE: S5R, 256mb SD card, reader, spare battery & leather case... £499.99

Canon Powershot S50



£399.99

BUNDLE: S50, 256mb CF card, reader & case... £459.99

MINOLTA Dimage 71



£299.99

BUNDLE: 71, 128mb SD card, reader, batteries, charger & case... £369.99

SONY DSC-P12



£369.99

BUNDLE: P12, 256mb Memory Stick & reader... £449.99

SONY DSC-U30



£159.99

BUNDLE: U30, 128mb Memory Stick, reader & Sony case... £229.99

CASIO Exilim EX-Z4



£349.99

BUNDLE: EX-Z4, 128mb SD card, reader & case... £399.99

FUJIFILM Finepix S304



£259.99

BUNDLE: S304, 128mb xD card, reader, batteries, charger and Fuji case... £369.99

KYOCERA Finecam S5



£299.99

BUNDLE: S5, 128mb SD card, reader & leather case... £349.99

Canon Powershot G5



£499.99

BUNDLE: G5, 256mb CF card, USB reader, spare battery & Leather case... £579.99

MINOLTA Dimage A1



£649.99

BUNDLE: A1, 128mb SD card, reader & case... £799.99

SONY DSC-P10



£349.99

BUNDLE: P10, 128mb Memory Stick, reader & case... £399.99

SONY DSC-U50



£249.99

BUNDLE: U50, 128mb Memory Stick, reader & Sony case... £299.99

PENTAX Optio S



£269.99

BUNDLE: S, 128mb SD card, reader & leather case... £339.99

FUJIFILM Finepix F700



£429.99

BUNDLE: F700, 256mb xD card, reader, case & spare battery... £559.99

KYOCERA Finecam L4v



£279.99

BUNDLE: L4v, 128mb SD card, reader, batteries, charger & case... £349.99



Mail Order: 08707 555 555
www.cameraworld.co.uk

NOTHING TO PAY FOR 6 MONTHS

You pay just 10% deposit then in 6 months, when the balance is due, you can either pay the balance in full - interest free - or begin paying monthly installments over 42 months for which interest would then be charged at 29.9% APR. Minimum balance after deposit £400.

14 Wells Street, (Just off Oxford Street) London W1T 3PB • Tel: 020 7636 5005 • Fax: 020 7636 5006 • Email: sales@cameraworld.co.uk
Christmas opening: Mon - Fri 9am to 6pm, Sat 9am to 5pm, Late Nights: Thursday 18th and Monday 22nd December. Also: Sunday 21st December, 11am to 4pm.
E & O.E. Goods and delivery services subject to stock availability. Prices subject to change. Special offers while stocks last. All prices include VAT.

Express mail delivery insured courier service, usually next working day (orders before 1pm). Order up to December 18th for Christmas delivery. UK Mainland £7.95. Small items/film in jiffy bag from £2. First Class Post.

bestcameras.co.uk

**FREE
2 YEAR
GUARANTEE ON STILL
DIGITAL CAMERAS**

AT
**Kamera
DIRECT**

**ALL U.K.
ITEMS
NO GREY
IMPORTS**

For our latest lowest prices call 01744 453111 or
check out our website at www.bestcameras.co.uk

digital cameras



CANON POWERSHOT A200	£159.99	OLYMPUS CAMEDIA C720	£249.99
A200 INC. EXTRA 64MB CARD, CHARGER KIT + CASE	£199.99	C720 INC. CASE & 64MB CARD & CHARGER KIT	£289.99
CANON POWERSHOT A70	£229.99	OLYMPUS CAMEDIA C8000	£329.99
A70 INC. EXTRA 64MB CARD, CHARGER KIT + CASE	£279.99	C8000 INC. CASE & 64MB CARD & CHARGER KIT	£379.99
CANON POWERSHOT A80	£279.99	OLYMPUS C5060W	£499.99
A80 INC. EXTRA 64MB CARD, CHARGER KIT + CASE	£319.99	C5060W INC. CASE & 64MB CARD	£529.99
CANON DIGITAL IXUS 1	£239.99	OLYMPUS CAMEDIA C750	£376.99
IXUS 1 INC. EXTRA 64MB CARD + CASE	£269.99	C750 INC. CASE & 64MB CARD & CHARGER KIT	£409.99
CANON DIGITAL IXUS 2	£254.99	OLYMPUS C5050	£429.99
IXUS 2 INC. EXTRA 64MB CARD + CASE	£284.99	C5050 INC. CASE & 64MB CARD	£454.99
CANON DIGITAL IXUS 400	£310.99	OLYMPUS OPTIO 330F	£189.99
IXUS 400 INC. EXTRA 64MB CARD + CASE	£330.99	OPTIO 330F + 64MB CARD, CASE & CHARGER KIT	£229.99
CANON POWERSHOT S50	£304.99	PENTAX OPTIO 33WR	£249.99
S50 INC. EXTRA 64MB CARD + CASE	£344.99	OPTIO 33WR + 64MB CARD & CASE	£299.99
S50 BLACK + 1GB MICRODRIVE	£484.99	PENTAX OPTIO S	£249.99
CANON POWERSHOT G5	£499.99	OPTIO S + 64MB CARD & CASE	£279.99
G5 INC. EXTRA 64MB CARD + CASE	£519.99	PENTAX OPTIO S4	£314.99
G5 + 1GB MICRODRIVE	£599.99	OPTIO S4 + 64MB CARD & CASE	£344.99
CANON EOS 300 D SLR	£739.99	PENTAX OPTIO 450	£324.99
300 D + 1GB MICRODRIVE	£809.99	450 + 64MB CARD & CASE	£364.99
300 D + 18-55 LENS	£829.99	PENTAX OPTIO 550	£374.99
300 D + 18-55 LENS + 1GB MICRODRIVE	£979.99	550 GS + 64MB CARD & CASE	£404.99
CANON EOS 10 D SLR	£1149.99	PENTAX OPTIO 555	£414.99
10 D + 1GB MICRODRIVE	£1299.99	555 GS + 64MB CARD & CASE	£444.99
10 D + SIGMA 17-35 LENS	£1469.99	PENTAX *IST D + 18 - 35 LENS	£1329.99
CANON ZOOM SCANNER	£60.99	PANASONIC LUMIX L33B	£219.99
CANON LIDE 80 SCANNER	£129.99	L33B + 64MB CARD, CASE & CHARGER KIT	£269.99
CANON 9900F SCANNER	£279.99	PANASONIC LUMIX L43B	£239.99
CANON 455S PRINTER	£74.99	L43B + 64MB CARD, CASE & CHARGER KIT	£269.99
CANON 475D PRINTER	£139.99	PANASONIC LUMIX F1B	£259.99
CANON 465S PRINTER	£159.99	LUMIX F1B + CASE & EXTRA 64MB CARD	£289.99
CANON 405D PRINTER	£234.99	PANASONIC LUMIX F22B	£269.99
CANON 465S PRINTER	£269.99	LUMIX F22B + CASE & EXTRA 64MB CARD	£299.99
CANON MPC 370 PRINTER, SCANNER & COPIER	PHONE	SAMSUNG DIGIMAX 101	£74.99
FUJIFINEPIX A205S	£149.99	101 + 64MB CARD, CASE & CHARGER KIT	£114.99
A205S INC. EXTRA 64MB CARD, CASE, CHARGER KIT	£199.99	SAMSUNG DIGIMAX 201	£139.99
FUJIFINEPIX A210	£199.99	201 + 64MB CARD, CASE & CHARGER KIT	£179.99
A210 INC. EXTRA 64MB CARD, CASE, CHARGER KIT	£239.99	SAMSUNG DIGIMAX 240	£134.99
FUJIFINEPIX A310	£229.99	240 + 64MB CARD, CASE & CHARGER KIT	£174.99
A310 INC. EXTRA 64MB CARD, CASE, CHARGER KIT	£269.99	SAMSUNG DIGIMAX 360	£164.99
FUJIFINEPIX F410 + CRADLE	£329.99	360 + 64MB CARD, CASE & CHARGER KIT	£204.99
F410 + 64MB CARD, CASE & SPARE BATTERY	£339.99	SAMSUNG DIGIMAX 420	£189.99
F410 + CRADLE, 64MB CARD, CASE & SPARE BATT	£379.99	420 + 64MB CARD, CASE & CHARGER KIT	£229.99
FUJIFINEPIX F700 + CRADLE	£409.99	SAMSUNG DIGIMAX II-CA3	£209.99
F700 + CRADLE, 64MB CARD, CASE & SPARE BATT	£459.99	II-CA3 + 64MB CARD, CASE & CHARGER KIT	£249.99
FUJIFINEPIX S3000	£239.99	SAMSUNG DIGIMAX V3	£219.99
S3000 + 64MB CARD, CASE & CHARGER KIT	£289.99	V3 + 64MB CARD, CASE & CHARGER KIT	£259.99
FUJIFINEPIX S5000	£349.99	SAMSUNG DIGIMAX V4	£249.99
S5000 + 64MB CARD, CASE & CHARGER KIT	£399.99	V4 + 64MB CARD, CASE & CHARGER KIT	£289.99
FUJIFINEPIX S7000	£539.99	SONY CYBERSHOT D SC U30	£149.99
S7000 + 64MB CARD, CASE & CHARGER KIT	£589.99	DSC U30 + EXTRA 32MB CARD & CASE	£179.99
MINOLTA DIGIMAGE E223	£159.99	SONY CYBERSHOT D SC U50	£189.99
E223 INC. EXTRA 64MB CARD, CASE, CHARGER KIT	£209.99	DSC U50 + EXTRA 32MB CARD & CASE	£219.99
MINOLTA DIGIMAGE X20	£159.99	SONY CYBERSHOT D SC U60	£189.99
X20 INC. EXTRA 32MB CARD, CASE, CHARGER KIT	£199.99	DSC U60 + EXTRA 32MB CARD & CASE	£219.99
MINOLTA DIGIMAGE XT	£229.99	SONY CYBERSHOT DSC P30	£149.99
XT + 64MB CARD & CASE	£259.99	DSC P30 + EXTRA 64MB CARD & CASE	£189.99
MINOLTA DIGIMAGE Z1	£279.99	SONY CYBERSHOT DSC P52	£164.99
Z1 + 64MB CARD AND CASE	£329.99	DSC P52 + EXTRA 64MB CARD & CASE	£204.99
MINOLTA DIGIMAGE A1	£639.99	SONY CYBERSHOT DSC P72	£204.99
A1 INC. EXTRA 64MB CARD & CASE	£689.99	DSC P72 + EXTRA 64MB CARD & CASE	£244.99
MINOLTA SCANDIAL 3	£259.99	SONY CYBERSHOT DSC P92	£284.99
NIKON COOLPIX 7100	£159.99	DSC P92 + EXTRA 64MB CARD & CASE	£324.99
7100 + 64MB CARD + CASE	£179.99	SONY CYBERSHOT DSC P8	£244.99
NIKON COOLPIX 3100	£239.99	DSC P8 + EXTRA 64MB CARD & CASE	£284.99
3100 + 64MB CARD + CASE	£259.99	SONY CYBERSHOT DSC P10	£309.99
NIKON COOLPIX 50	£299.99	DSC P10 + EXTRA 64MB CARD & CASE	£349.99
50 + 64MB CARD + CASE	£319.99	SONY CYBERSHOT DSC P12 + CASE & SPARE BATT	£324.99
NIKON COOLPIX 4300	£299.99	DSC P12 AS ABOVE + EXTRA 64MB CARD	£359.99
4300 + 64MB CARD & CASE	£319.99	SONY CYBERSHOT DSC F77	£319.99
NIKON COOLPIX 1400	£324.99	DSC F77 + EXTRA 64MB CARD & CASE	£359.99
1400 + 64MB CARD & CASE	£344.99	SONY CYBERSHOT DSC F87	£369.99
NIKON COOLPIX 3700	£279.99	DSC F87 + EXTRA 64MB CARD & CASE	£409.99
3700 + 128MB CARD & CASE	£299.99	SONY CYBERSHOT V1	£449.99
OLYMPUS C150 ZOOM	£119.99	V1 + EXTRA 64MB CARD & CASE	£489.99
C150 INC. CASE, 32MB CARD, & CHARGER KIT	£149.99	SONY CYBERSHOT DSC F717	£564.99
OLYMPUS C220	£144.99	F717 + EXTRA 64MB CARD & CASE	£604.99
C220 INC. CASE, 64MB CARD, & CHARGER KIT	£179.99	SONY CYBERSHOT DSC F828	£749.99
OLYMPUS C350 ZOOM	£169.99	F828 + EXTRA 64MB CARD & CASE	£789.99
C350 INC. CASE, 64MB CARD, & CHARGER KIT	£209.99	SONY NAVICA MVC-FD200	£249.99
OLYMPUS CAMEDIA MUJ 300	£239.99	OLYMPUS PRINTER DPP EX3	£159.99
MUJ 300 INC. CASE & 64MB CARD	£269.99		
OLYMPUS CAMEDIA MUJ 400	£289.99		
MUJ 400 INC. CASE & 64MB CARD	£319.99		



**CAMCORDERS, CAMERAS, MEMORY
CARDS ALL AT LOW LOW PRICES.
SEE WEBSITE FOR DETAILS**

www.bestcameras.co.uk

KAMERA DIRECT

6/8 Cotham St. St Helens, Merseyside WA10 1SA

Tel: 01744 453111 • Fax 01744 453441

Website: www.bestcameras.co.uk • Email: sales@bestcameras.co.uk

*Ask for details. Call for carriage price outside UK mainland. **U.K. Mainland only

**FAST
FREE
DELIVERY***



Hi-Touch Imaging Technologies

*Hi-Touch has developed a range of cost effective
dye sublimation digital photo printers to suit all
your needs. Using continuous tone printing, a
special protective layer and user friendly software
you can print the highest quality borderless photos
quickly and easily*



630PS

SUPERIOR QUALITY STANDALONE MODEL

The Hi-Ti 630PS is a standalone photo printer perfect for amateur and professional digital photographers. The unit is equipped with a handheld controller containing an LCD screen for easy photo preview and editing. It is capable of outputting high resolution 4x6 inch photos with or without a computer. The model supports CompactFlash and SmartMedia memory cards.

Photoshuttle

OUTSTANDING PRINTS IN SUPER FAST TIME

A fast, high quality photo printer that produces prints of an outstanding quality. The high speed printing means your photograph can be printed in just 45 seconds. It is perfect for home and office printing producing lab quality images in seconds.



640PS

THE ULTIMATE PRINTING SOLUTION

A standalone model that has been designed for professional photographers and enthusiastic amateurs. Its most versatile and convenient dye-sublimation printer you can buy. It boasts 403x403 dpi (equal to 6400 dpi inkjet printers) delivering remarkable, unbeatable results. This model supports CompactFlash, SmartMedia, Secure Digital, MultiMedia Card, Memory Stick, Memory Stick Pro and IBM Microdrive.



Transphotable

PORTABLE QUALITY PHOTO PRINTING

The Hi-Ti Transphotable is the ideal portable photo printer. This printer has been designed to offer high quality, convenient portable printing. Images can be printed away from the home or office direct from your media card. The printer is surrounded by a protective cover for regular transportation.



www.hi-ti.co.uk

www.hitishop.co.uk

T: 01908 266677

E: sales@hi-ti.co.uk

To receive a sample print from any of these models or from other models within the Hi-Ti Range, please email an image to sales@hi-ti.co.uk and include your full postal address

All trademarks and brand names are properties of their respective companies

PhotoGlossy.com™

The Digital & Photographic Specialist

WWW.PHOTOGLOSSY.COM
TEL. 01481 736990
FAX. 01481 736991
POST. PLEASE PHONE FOR OUR FREEPOST ADDRESS.

Canon



	CANON	COMPATIBLE
BC01	BLK.....£13.75	£9.95
BC02	BLK.....£13.95	£9.95
BC05	CLR.....£15.50	
BC06	PHOTO.....£13.95	
BC10	BLK.....£23.50	
BC-20	BLK.....£17.95	£11.00
BC-21e	Print Head.....£28.50	
BC-22e	PHOTO.....£16.50	
BC-23	BLK.....£17.95	
BCI-3	BLK.....£8.50	
BCI-3	C/M/Y.....each £6.95	
BCI-6	BLK.....£7.50	
BCI-6	C/M/Y.....each £7.50	
BCI-6	PM/PC.....each £7.50	
BC-60	BLK.....£23.50	
BCI-10B	BLK x3.....£9.75	£4.50
BCI-11B	BLK x3.....£7.50	£4.50
BCI-11C	CLR x3.....£11.50	£4.95
BCI-24B	BLK.....£5.95	
BCI-24C	CLR.....£9.75	
BCI-21B	BLK.....£5.25	£2.50
BCI-21C	CLR.....£9.75	£3.95

CANON PAPER

PP101A4	A4 Photo Paper Plus Glossy x20.....	£7.50
PP101	6x4 Photo Paper Plus Glossy x20.....	£4.75
MP101	A4 Photo Matte Paper x50.....	£6.95
PR101	A4 Professional Photo Glossy Paper x15.....	£9.25
HR101	A4 Photo Matte Paper 106g x200.....	£16.75
GP301	A4 Glossy Photo Paper 165g x20.....	£7.50
HR50	A4 Photo Matte Paper 106g x50.....	£4.95

HEWLETT PACKARD



	H.P.	COMPATIBLE
C6656A	BLK.....£14.50	
C6657A	TH-CLR.....£22.95	
C8727A	BLK.....£13.75	
C8728A	TH-CLR.....£14.50	
C6578A	CLR.....£42.50	£16.95
C6578D	CLR.....£23.95	
C6614D	BLK.....£17.95	£11.95
C6615D	BLK.....£17.95	£12.95
C1823D	CLR 30ml.....£23.95	
C1816A	PHOTO.....£23.50	
51649A	CLR.....£17.95	£14.95
51645A	BLK.....£17.95	£11.50
51641A	CLR.....£23.00	
51633M	BLK.....£16.50	£9.95
51629A	BLK.....£17.95	£12.00
51626A	BLK.....£17.95	£9.95
51625A	CLR.....£23.99	£12.95

HEWLETT PACKARD PAPER

8818A	A4 Brochure & Flyer Gloss 160g x50.....	£8.50
6984A	A4 Photo Quality Paper 160g x25.....	£6.95
6832A	A4 Premium Photo Glossy 230g x20.....	£9.75
6951A	A4 Premium Photo Matte 230g x20.....	£9.75
6040A	A4 Premium Photo Paper 220g x15.....	£7.50
1847A	A4 Photo Glossy Paper 160g x20.....	£5.95
51634Z	A4 Premium LX 95g x200.....	£10.95
1853A	A4 Photo Matte 2 sided 135g x100.....	£10.75
6050A	A4 Iron-on Transfers x10.....	£9.95
6042A	A4 Greeting Cards & Envelopes x20.....	£6.50
3832A	A4 Transparency Film x20.....	£8.50

Inkjet Refill Kit & Inks

SAVE \$\$\$ WHEN YOU REFILL YOUR EMPTY CARTRIDGES			
Black Refill Kit	50ml.....	£4.95	100ml £6.95
Colour Refill Kit	75ml.....	£7.95	150ml £9.95
Black Ink	125ml.....	£4.95	250ml £5.95
Colour Inks C/M/Y	125ml.....	£5.95	250ml £6.95
Cleaning Fluid	125ml.....	£3.95	
Ink Jector Kit		£2.95	

Photo inks also available - please call for details

EPSON



	EPSON	COMPATIBLE
NEW T042440	Yellow.....£9.75	
NEW T042340	Magenta.....£9.75	
NEW T042240	Cyan.....£9.75	
NEW T041040	CLR.....£16.50	£4.75
NEW T040140	BLK.....£23.65	£4.95
NEW T037040	CLR.....£13.50	£4.75
NEW T036140	BLK.....£11.00	£4.95
NEW T035640	Photo Mag.....£8.95	
NEW T035440	Photo Cyan.....£8.95	
NEW T035440	Yellow.....£8.75	
NEW T035340	Magenta.....£8.75	
NEW T035240	Cyan.....£8.75	
NEW T035140	BLK.....£8.95	
NEW T032440	Yellow.....£9.25	£4.75
NEW T032340	Magenta.....£9.25	£4.75
NEW T032240	Cyan.....£9.25	£4.75
NEW T032140	CLR.....£17.95	£5.75
T029401	CLR.....£16.95	£5.75
T028401	BLK.....£17.95	£4.75
T027401	CLR.....£14.50	£5.75
T026401	BLK.....£15.95	£4.75
T018401	CLR.....£14.95	£4.75
T017401	BLK.....£17.95	£4.30
T014401	CLR.....£13.50	£3.55
T013401	BLK.....£9.95	£2.30
T009401	PHOTO.....£15.50	£5.75
T008401	PHOTO.....£12.50	£5.75
T007401	BLK.....£13.95	£5.75
T005011	CLR.....£17.95	£3.55
T003011	BLK.....£17.95	£2.30
T001011	PHOTO.....£16.75	£3.55
20193	PHOTO.....£12.50	£3.55
20191	CLR.....£15.95	£3.55
20189	BLK.....£15.75	£2.30
20187	BLK.....£13.95	£2.30
20110	PHOTO.....£12.50	£3.55
20093	BLK.....£13.50	£2.30
20089	CLR.....£15.75	£3.55

See website for full range of inks

Amazing EPSON Paper Prices...

41377	Premium Glossy Photo Paper Roll 120mmx10m.....	£28.99
41379	Premium Glossy Photo Paper Roll 120mmx10m.....	£39.95
41620	A4 Photo Glossy Paper x50.....	£12.75
41622	A4 Photo Paper x50.....	£12.95
41624	A4 Premium Photo Glossy Paper x50.....	£17.95
41330	Premium Semi Gloss Photo Roll Paper 100mmx10m.....	£11.25
41328	A3+ Premium Semi Gloss Photo Paper x20.....	£33.95
41316	A3+ Premium Photo Paper 255g x20.....	£17.95
41143	A3+ Photo Paper 180g x20.....	£17.95
41315	A3 Premium Semi Gloss Photo Paper x20.....	£26.95
41261	A3 Premium Photo Paper x20.....	£24.95
41142	A3 Photo Matte Paper 167g x50.....	£23.50
41332	A4 Photo Paper 180g x20.....	£17.75
41287	A4 Premium Semi Gloss Photo Paper x20.....	£9.95
41140	A4 Premium Photo Paper 255g x20.....	£9.95
41126	A4 Photo Paper 180g x20.....	£7.95
41560	A4 Photo Glossy 90g x20.....	£5.95
41342	A4 ColourLife Photo Paper 245g x20.....	£12.95
41256	A4 Matte Archival Paper 192g x50.....	£9.75
41106	A4 Photo Matte 167g x50.....	£8.95
41061	A4 Photo Matte Adhesive x10.....	£7.95
41154	A4 Photo Matte Paper 90g x100.....	£9.75
41121	A4 Iron-on Transfers x10.....	£9.25
41134	A4 Photo Card x30.....	£5.95
41176	A4 Photo Paper x20.....	£4.95
41054	A4 Photo Stickers x54.....	£4.75
	A4 Photo Card x50.....	£5.50

See website for full range of papers

LEXMARK



	LEXMARK	COMPATIBLE
18L0042	CLR.....	£26.50
18L0032	BLK.....	£22.50
10N0026	CLR.....	£22.50
10N0016	BLK.....	£17.50
17G0060	CLR.....	£17.75
17G0050	BLK.....	£17.75
13619HC	CLR.....	£24.50
13400HC	BLK.....	£17.95
12A1990	PHOTO.....	£27.50
12A1980	CLR.....	£26.50
12A1970	BLK.....	£17.95
12A1975	BLK.....	£27.50
15M0120	CLR.....	£26.50



NEW PhotoGlossy.com Ultra White
high quality Photo paper range all
for under a Tenner!

PS265	A4	265 gsm Photo Silk	x40.....	£9.95
PG265	A4	265 gsm Photo Glossy	x40.....	£9.95
PS215	A4	215 gsm Photo Silk	x50.....	£9.95
PG215	A4	215 gsm Photo Glossy	x50.....	£9.95
PG150	A4	150 gsm Photo Glossy	x50.....	£7.95
PM225	A4	225 gsm Photo Matte	x100.....	£8.95
PM175	A4	175 gsm Photo Matte	x150.....	£8.95
PM125	A4	125 gsm Photo Matte	x200.....	£8.95

COMPUCOLOR PHOTO PAPERS

A3P260	A3+	260 gsm Heavy Photo Glossy Paper	x40.....	£37.75
A3260	A3	260 gsm Heavy Photo Glossy Paper	x40.....	£29.25
A3P200	A3+	200 gsm Ultra Photo Glossy Paper	x50.....	£29.95
A3200	A3	200 gsm Ultra Photo Glossy Paper	x50.....	£23.50
A4170	A4	170 gsm Photo Matte 2 sided	x150.....	£9.95
A4120	A4	120 gsm Photo Matte 2 sided	x200.....	£9.95
C4T	A4	T-Shirt Transfer Paper	x15.....	£6.99
CANVAS	A4	175 gsm Photo Canvas Card	x10.....	£4.99
A4BC	A4	230 gsm Business Cards	x100.....	£3.99

FOLEX SPECIALIST INKJET PRODUCTS

FBUS	A4	Business Card Jet	x200.....	£6.99
FCASE	A4	CD Case Jet	x10.....	£5.50
FOOVER	A4	CD Cover Jet	x10.....	£5.50
FLABEL	A4	CD Label Jet	x30.....	£5.99
FLIT	A4	Backlit Jet	x5.....	£5.99
FC300	A4	True Artists Canvas	300 gsm x3.....	£4.99

See website for full range of Folex papers

Low Media Prices!

MEMOREX CDRs from 33p

CDR 80/700 50 on a Spindle.....	only £16.50
CDR 80 min 700MB.....	69p each/£5.95 10 pack
CDRW 74 min 700MB.....	£1.20 each/£9.95 10 pack
Imomega Zip 100MB PC or Mac.....	£6.99 each
Imomega Zip 250MB PC or Mac.....	£9.75 each
Maxell DVD Ram 5.2Gb.....	£12.99
Imation DVD-R 4.7Gb.....	£2.95
Imation DVD+R 4.7Gb.....	£2.95
Imation DVD-RW 4.7Gb.....	£3.95
Imation DVD+RW 4.7Gb.....	£3.95
Imation DVD Ram 4.7Gb.....	£9.95

Smart Media

16MB 3.3V.....	£4.95
32MB 3.3V.....	£6.95
64MB 3.3V.....	£12.95
128MB 3.3V.....	£23.95

Compact Flash

32MB formatted.....	£9.95
64MB formatted.....	£13.95
128MB formatted.....	£25.50
256MB formatted.....	£39.50
512MB formatted.....	£93.50
1.0GB formatted.....	£370.50

Secure Data Cards

32MB.....	£12.50
64MB.....	£17.95
128MB.....	£35.95
256MB.....	£63.95
512MB.....	£168.95

MultiMedia Cards

32MB.....	£10.95
64MB.....	£15.95
128MB.....	£29.95

XD Picture Cards

32MB.....	£10.95
64MB.....	£17.95
128MB.....	£38.95
256MB.....	£79.95

Card Readers & Adapters

USB DUAL CF/SM Reader/Writer.....	£12.95
PCMCIA Compact Flash Adapter.....	£4.95
PCMCIA Smart Media Adapter.....	£14.95
NEW XD USB Card Reader.....	£15.95
NEW 8 in 4 USB Card Reader.....	£17.95

NEW Card Caboodles™

Compact Flash Caboodle.....	£3.45
Smart Media Caboodle.....	£3.45
Memory Stick Caboodle.....	£3.45
XD Picture Card Caboodle.....	£3.45
Secure Digital/Multi Media Caboodle.....	£3.45

Memory Sticks for Sony

64MB.....	£26.95
128MB.....	£41.50

Digital Video

SONY DVM 60min Premium (no chip).....	£4.75
SONY DVM 60min IC Excellence (with chip).....	£7.95
Panasonic AY-DVM 60min EK (no chip).....	£4.95

P&P ONLY 95P PER ORDER. DELIVERY 3-10 WORKING DAYS.
FOR CHRISTMAS DELIVERIES, PLEASE PLACE ORDERS BY 8TH DECEMBER.

PhotoGlossy.com sells exclusively to Home Users (Sorry, we do not supply Business to Business). All Prices include any VAT & Duties where applicable and are accurate at the time of going to Press E&OE.

PhotoGlossy.com reserves the right to change prices. Please check our website or phone us for up to the minute prices.

The above trademarks are recognised and are used for illustrative purposes only.

MERRY CHRISTMAS AND HAPPY NEW YEAR TO ALL PHOTOGLOSSY CUSTOMERS

£379 or £14 mth





All Weather (AW) Cover™ (patented)
Protect from rain, dust and snow

Digital to go... ...wherever go is

digital Resolution series

Cases for the Digital World

Go anywhere... know no boundaries. Lowepro's evolutionary cases let you take your digital still or video camera, laptop computer, mobile phone, palm organiser, memory cards, accessories and more.

D-Res bags and pouches... a brand-new solution for protecting and carrying your digital and electronic gear.



Lowepro. We'll help take you places.

For information or a dealer in your area visit our website:

www.lowepro-uk.com

Customer Support 0870 420 4211 Brochure Line 0870 420 4198
e-mail: info@lowepro-uk.com



Protective, ultra-soft lining plus pockets for memory cards and batteries



D-Res 50 AW
Point, shoot and go



D-Res 240 AW and D-Res 6
Create your virtual office

Lowepro is firmly committed to the conservation and preservation of the environment, and encourages all photographers to practice "no trace" trekking and camping in the wilderness areas.



VISIT OUR WEBSITE AND ORDER ONLINE

All Trademarks Acknowledged


WWW.DIGIPRINTUK.COM

P&P FROM £1.00
NEXT DAY DELIVERY AVAILABLE

CALL OUR SALES OFFICE ON 01707 656553
FAX OUR SALES OFFICE ON 01707 656556

ALL OUR MEMORY CARDS CARRY A 5 YEAR GUARANTEE





SmartMedia
32MB £9.45
64MB £12.95
128MB £27.50

All Cards 3.3V. Complete With Storage Case



CompactFlash
32MB £11.50
64MB £15.50
128MB £22.90
256MB £40.95
512MB £91.40

Complete With Storage Case



MultiMedia (MMC)
32MB £12.45
64MB £18.45
128MB £31.50


Complete With Storage Case



High-Speed 3.0MB/s CompactFlash
64MB £19.99
128MB £30.95
256MB £49.99
512MB £99.95



CompactFlash Card Reader £9.95
SmartMedia Card Reader £9.95
Secure Digital Card Reader £9.95
MultiMedia Card Reader £9.95
Memory Stick Reader £9.95
Six In One Card Reader £7.95



UNIROSS
UltraFast Battery Charger
6 4x 2100mAh Batteries £27.99
2100mAh Batteries £9.50



USB PEN DRIVES
32MB £16.99
64MB £27.99
128MB £36.99
256MB £59.99
512MB £119.95



Secure Digital
32MB £14.99
64MB £22.80
128MB £37.60
256MB £63.45
512MB £185.65

Complete With Storage Case



XD
32MB £13.90
64MB £21.65
128MB £38.80
256MB £87.99
512MB £159.99

Complete With Storage Case



Memory Stick
64MB £25.85
128MB £39.95

We Also Stock Original Sony
Call the sales office for details
01707 656553

CALL OR EMAIL US AT: info@digiprintuk.com FOR UP TO DATE PRICES

WE ALSO SELL INK CARTRIDGES FROM £157. TONER CARTRIDGES. AND SPECIALIST PAPERS

ALL OUR PRICES INCLUDE VAT. ALL MAJOR CREDIT CARDS ACCEPTED



Prices correct at time of going to press.

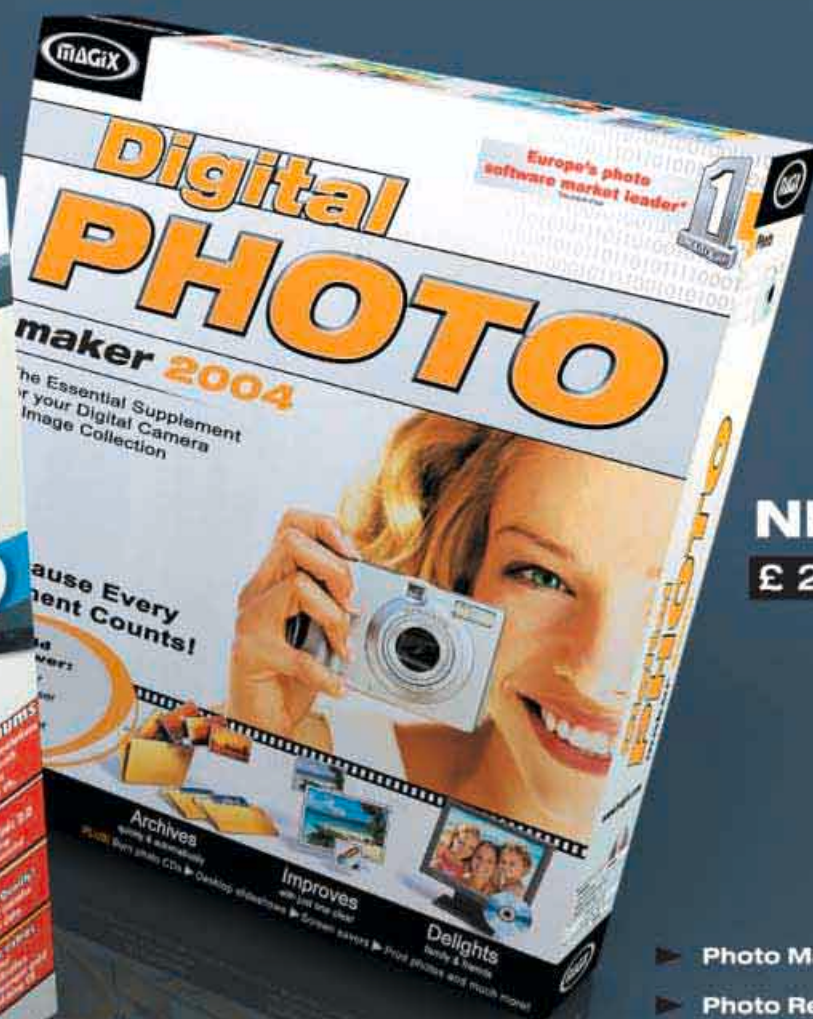
ORDER DIRECT

phone: 0800 056 1799
www.magix.com

UK's Premium Selection of Multimedia Software



NEW!
£ 39.99



NEW!
£ 29.99

**Essential for your
digital camera &
photo collection!**

Watch your
photos on TV!

PC Home,
no. 128:
"Plenty of templates,
glowy result possible."

PC HOME
SILVER
AWARD

DIGITAL
PHOTOGRAPHY
BUYER & USER

Digital Photography
Buyer & User, June 03:
"A superb program for
creating slide shows."

Awards refer to the previous version MAGiX Photos on CD & DVD.

ORDER NOW at www.magix.com or by phone: 0800 056 1799

However you order, you can buy with confidence.

Prices include VAT – secure online-ordering – usually delivered in 7 working days – technical support provided – products will be delivered in DVD packaging

MAGiX Photos on CD & DVD 2.0 deLuxe

- ▶ Import directly from digital cameras and scanners
- ▶ Create sensational photo shows with music, narration, transitions & text
- ▶ Burn them onto CD or DVD – all with a simple click of the mouse!

MAGiX Digital Photo Maker 2004

- ▶ Instantly view all your photos!
- ▶ Restore, arrange, re-arrange and organise with just one click!
- ▶ Create impressive presentations!
- ▶ Burn discs for a permanent CD-ROM photo archive!



**Europe's
market leader**
in video, photo & music software*

published in the UK by
FastTrak Software Publishing



see. hear. feel. create

* denotes the number of products sold through European retail trade (total market) according to Media Control's monthly charts D/A/CH Non-games; GfK Benelux, France, Non-Games; Future Retail Panel UK, Italy, Spain, Nordic; Period: January-August 2003.

www.savastore.com/cameras

10264244	BENQ DC1014	31.73
10261547	BENQ DC1300	47.00
10265458	BENQ DC2300	95.18
10264242	BENQ DC2410	131.60
10264243	BENQ DC4500	244.40
10268408	EPSON PhotoPC L300	221.49
10268409	EPSON L300 & Stylus Photo 8300 Bundle	248.51
10268187	NIKON CoolPix 2100	147.46
10268188	NIKON CoolPix 3100	224.78
10268189	NIKON CoolPix 50	284.70
10263100	NIKON CoolPix 4300	292.58
10263101	NIKON CoolPix 4500	421.83
10270454	NIKON CoolPix 5400	493.50
10274830	NIKON CoolPix 5700	714.40

ALSO AVAILABLE JVC, KODAK, MINOTA, FUJIFILM, OLYMPUS, RICOH, SANYO, SONY, TRUST

www.savastore.com/scanners

10265322	BENQ SW 5000E Optical USB	50.53
10271481	BENQ SW 5250C OneTouch	55.01
10262543	BENQ SW 7400UT	139.83
10265319	BENQ ScanWit 2740S FilmScanner	249.10
10007170	EPSON Perfection 1640SL	199.75
10270328	EPSON Perfection 1670	70.50
10270329	EPSON Perfection 1670 Photo	88.13
10248126	EPSON Perfection 2400 Photo	131.40
10270330	EPSON Perfection 3170 Photo	175.08
10242108	EPSON Perfection 3200 Photo	263.20

ALSO AVAILABLE ACER, CANON, HEWLETT PACKARD, MICROTEK, NIKON

www.savastore.com/printers

10267921	EPSON Stylus C44UX	43.48
10270326	EPSON Stylus C64	40.04
10270327	EPSON Stylus C84 Photo	90.48
10006650	EPSON Stylus Color 1160	225.60
10006651	EPSON Stylus Color 1520	370.13
10264980	EPSON Stylus Photo 8300	69.33
10272500	EPSON Stylus Photo R300 Monitor Edition	156.28
10247409	EPSON Stylus Photo 950	259.09
10255654	EPSON Stylus Photo 1290S	284.70
10247937	EPSON Stylus Photo 2100	521.70

ALSO AVAILABLE CANON, HEWLETT PACKARD, LEXMARK

www.savastore.com/memory

10260712	PNY 64MB Compact Flash Card	19.98
10261044	PNY 128MB Compact Flash Card	29.38
10261047	PNY 256MB Compact Flash Card	47.00
10261048	PNY 512MB Compact Flash Card	92.83
10264053	PNY 1GB Compact Flash Card	175.08

www.savastore.com/graphicssoftware

10234443	ADOBE Photoshop 7.0 Win	584.33
10234445	ADOBE Photoshop 7.0 Win upgrade	139.24
10264207	ADOBE Photoshop Album	30.55
10257821	ADOBE Photoshop Elements	79.90
10250155	PINNACLE Studio V8 video editing	48.76
10247543	PINNACLE Impression Pro DVD	337.23
10270651	PINNACLE Instant Copy V8	25.85

ALSO AVAILABLE MICROSOFT, AUTODESK, MACROMEDIA, JASC

Picture This!!!

All your digital photography needs under one roof!
The UK's largest range available on-line!



COOLPIX 5700
PartCode 10248340
5.0 Effective Megapixels, 8x Optical Zoom
This digital camera ensures that all detail is captured at the touch of a button.

£714.40 Inc VAT

COOLPIX 2100
PartCode 10268187
2.0 Effective Megapixels, 3x Optical Zoom
Designed to offer a perfect combination of quality, ease of use, portability and affordability.

£147.46 Inc VAT



COOLPIX 5400
PartCode 10270454
5.1 Effective Megapixels, 4x Optical Zoom
This Compact Digital Still Camera is your passport to creativity!

£493.50 Inc VAT



Nikon

www.savastore.com/nikon



5300U Scanner

Push button CCD scanning, 1200dpi, USB, Scan to web & Palm.

£57.58 Inc VAT

PartCode 10265323

www.savastore.com/benq



Scan to Web 5450U

Humanized interface and fast push-button CCD scanning design makes scanning a snap.

£64.63 Inc VAT

PartCode 10268535

ScanWit 2720S

Advanced zero-reflection optical design. One-pass CCD technology. Film scanner. 2700 x 2700 dpi, PC & Mac.

£171.55 Inc VAT

PartCode 10262561



EPSON



Stylus Photo 8300

5760 optimized dpi for highest quality printing. Borderless printing for instant photo-lab style prints.

£69.33 Inc VAT

PartCode 10264980



Stylus Photo R300

Premium quality photo printer - personalise, print and save your memories with or without a computer.

£130.43 Inc VAT

PartCode 10272499

Stylus Photo 950

The complete digital photo solution for home and professional photo printing.

£259.09 Inc VAT

PartCode 10247409



www.savastore.com/epson



PHILIPS

DVDRW416K

DVD+R/RW

The Ultimate in Digital Recording

£119.97 Inc VAT

PartCode 10267976

www.savastore.com/philips



InstantCD/DVD v8

Everything you need in a suite to create, burn/copy CDs and DVDs.

£37.60 Inc VAT

PartCode 10270852

PINNACLE SYSTEMS

Instant PhotoAlbum

The fun and easy way to enjoy your photos! Create entertaining photo slideshows, edit your photos easily and burn to CD or DVD for TV viewing.

£17.63 Inc VAT

PartCode 10270854



www.savastore.com/pinnacle

Flash 6-in-1 USB Reader PartCode 10268100

Transfer your data up to 40x Faster than a Parallel port connection

£27.15 Inc VAT

PNY TECHNOLOGIES

Compact Flash Media PartCode 10260712

100% compatible with Digital Cameras, PDA's & MP3 Readers with Type 1/11 slots

64Mb From £19.98 Inc VAT

www.savastore.com/pny



savastore.com
a division of **WATFORD electronics**

For Complete Aries PC Range Visit
www.savastore.com/aries

Sales 0870 443 8590 or Visit www.savastore.com

We update our prices daily! Check our web site for latest prices!

www.costlessdigital.com

CAMERA MEMORY AT WHOLESALE PRICES

Amateur

Lexar	Refurbished 128MB 12X Compact Flash Card	£17.99
	128MB 16X Compact Flash Card	£39.99
	256MB 16X Compact Flash Card	£54.99
	128MB Memory Stick	£34.99
	256MB Memory Stick	£62.99
Transcend	128MB 25X Compact Flash Card	£27.99
	256MB 25X Compact Flash Card	£48.99
	128MB 16X Secure Digital	£43.99
	256MB 16X Secure Digital	£62.99
Dane-Elec	128MB 22X Compact Flash	£26.99
	64MB Smart Media	£13.99

Professional

Lexar	512MB 40X Compact Flash Card	£128.99
	4GB 40X WA Type II Compact Flash Card	£829.99
	512MB Memory Stick Pro	£183.99
	1GB Memory Stick Pro	£349.99
Transcend	512MB 45X Compact Flash	£ 99.99
	1GB 30X Compact Flash Card	£169.99
Dane-Elec	512MB 16X Compact Flash Card	£ 79.99
Ridata	512MB 40X Compact Flash	£121.99
	2GB 40X Compact Flash Card	£344.99
	Hitachi Micro Drive Travel Kit 1GB	£139.99

Full range of products available online - Delivery and Insurance £2.49 on most items - PayPal Authorised - All Major Credit cards accepted



Pictured above in the heart of the country is the **PEAK DISTRICT PHOTOGRAPHY CENTRE**

Leading the way in Digital Imaging, we are the UK's No. 1 in digital and landscape photography workshops. Set in a beautiful location, this is a perfect environment in which to learn and enjoy.

One workstation per person • small groups
experienced tutors • cutting edge technology
guided excursions

www.peakphotocentre.com
email: elaine@pdpic.fsnet.co.uk
tel: 01208 687211

QUIRAING LODGE

Photo holidays and workshops on the beautiful Isle of Skye



Staffin - Isle of Skye - IV51 9 JS
01470 562 330
samandsuzy@quiraing-lodge.co.uk
www.quiraing-lodge.co.uk

CALIBRE COMPUTING

WIN AN EPSON PRINTER
ONLINE EVERY MONTH !!

Call free: 0800 6520899
or shop online at:
www.calibrecomputing.co.uk



To flash your business
phone Zed
01225 822 737



Directfoto
EXPRESS INTERNET SERVICE

REAL PHOTO QUALITY DIGITAL PRINTS COST MUCH LESS! ONLY 15P EACH & BULK DISCOUNTS
from www.directfoto.co.uk

MEMORY CARDS COST MUCH LESS!
from www.directfoto.co.uk

KODAK INK-JET PHOTO PAPERS COST MUCH LESS!
from www.directfoto.co.uk

ALL SIZE BATTERIES, DURACELL KODAK ETC COST MUCH LESS!
from www.directfoto.co.uk

Directfoto UK'S BEST PHOTOPROCESSOR WHICH MADE IT BEST BUY OVER ALL OTHERS WHERE THE BEST COSTS MUCH LESS!



Pi Computer Solutions Ltd
Low Cost Quality Personal Computers

Pi MMu-2600+ System
AMD Athlon XP 2600+ processor
512Mb ram
nVidia GeForce FX 5200 128Mb DDR TV/DVI
80Gb Hard Drive
17" SVGA CRT monitor
56k Modem
16x DVD-Rom Drive
52x 32x 52x Burnproof CD-RW
Creative Labs Inspire 5500 5.1 Speakers
Microsoft XP Home edition
Microsoft Works 7.0
£849.99

Pi MMu-2600+ Base Unit Only*
AMD Athlon XP 2600+
512Mb Ram
48x 24x 48x CD-RW & 16x DVD Combo Drive
Integrated GeForce 4 MX
Integrated 6 Channel Audio
80Gb Hard Drive
4x USB ports 2x IEEE-1394a (Firewire) ports
Onboard LAN
56k Modem
£574.99

*Does not include OS
Add Microsoft Windows XP Home for only £80.00

www.picomputersolutions.co.uk
0115 972 4478

10% Student Discount on Selected Items

Beware of cheaper alternatives!

Honest, value for money domain name registration, domain management systems, email packages and fast, reliable virtual web hosting. Fully inclusive registrations from £4 for .uk and £9 for .com, .biz, and .info. Many more international domains available.



Sun Cobalt RaQ 550 servers at competitive rates. **FREE** unlimited email and telephone support. Ideal for resellers or developers. For more information go to ... www.Dedicated.net

FREE telephone tech support

DOMAIN SERVICES
 ✓ Web Forwarding
 ✓ E-Mail Forwarding
 ✓ Meta Tag Creator
 ✓ URL Masking
 ✓ Online DNS Admin

➔ more than just

Call today
 our friendly staff are ready to discuss your requirements or offer free technical support



0870 120 8888

CheapNames

order online @ www.cheapnames.co.uk

Names.co Internet plc, Britannia Court, 3 Moor Street, Worcester WR1 3DB. All prices per annum inc. VAT. Cheques and major credit/debit cards accepted.

Great Value Web Hosting Solutions

StartUp
£49^{.99}

50MB & 5 Pop3

Business
£149^{.99}

250MB & 20 Pop3

Enterprise
£199^{.99}

500MB & 50 Pop3

StartUp
£89^{.99}

+PHP/ASP/MySQL/SSL

Business
£189^{.99}

+PHP/ASP/MySQL/SSL

Enterprise
£249^{.99}

+PHP/ASP/MySQL/SSL

NEW sites

USER2 INTERNET
 Broadband

Home User 500

£25
 per month

Activation

£65

USB ADSL Modems

from **£50**

Tel: 01782 622252

Web: www.user2internet.net

(all prices are inclusive of VAT)

dipinto.co.uk
 Digital Image Printing Solutions



NEW TO PROFESSIONAL PHOTOGRAPHERS

The Dipinto Preview Album

Dipinto's Preview Album makes the Proofing & Previewing of images simple.

- 1) Shoot your images.
- 2) Save & Send your images to Dipinto on CD.
- 3) Dipinto software will produce this amazing preview album.

For more info, visit www.dipinto.co.uk
 tel: 01926 463607 email: enquiries@dipinto.co.uk

www.cloudome.co.uk

Sole U.K. importers of this amazing studio equipment.
 Tel: 01768 899989 or e-mail: sue@clouddome.co.uk



Cloud Dome

An ingenious way to achieve perfect lighting for miniature photography.

- Fits most cameras
- Easy to assemble
- Light & portable
- Ideal for jewellers, craftsmen, Web site designers, collectors, etc wishing to perfect their photography

Visit our Web site now for product details and prices.

AMAZING OFFERS 128MB Memory Cards from £16.99

mymemory.co.uk

**NEW LOWER PRICES ON
USB MEMORY PENS**



**Lexar 64MB
JumpDrive
ONLY £17.99**

20% OFF



**Olympus 128MB xD
Picture Card
NOW £35.99
WAS £45.99**



**Lexar 8in1
USB2.0 Multi-Reader
ONLY £17.99**



**128MB 8X
CompactFlash Cards
FROM £16.99**

LEXAR

CompactFlash	Price £
64MB 8X	£14.65
128MB 8X	£17.99
256MB 8X	£48.51
512MB 12X	£96.84
256MB 40X	£62.99
512MB 40X	£126.14
1.0GB 40X	£214.60
JumpDrive	Price £
64MB USB	£17.99
128MB USB	£39.38
256MB Pro USB2.0	£60.75
512MB Pro USB2.0	£119.68
1.0GB Pro USB2.0	£230.10

SmartMedia

SmartMedia	Price £
64MB	£13.21
128MB	£22.99
Memory Stick	Price £
64MB	£22.99
128MB	£36.99
256MB	£68.31
Memory Stick Pro	Price £
256MB	£77.75
512MB	£185.99
1.0GB	£371.98
MultiMedia	Price £
64MB	£16.99
128MB	£34.76

Secure Digital

Secure Digital	Price £
64MB	£16.99
128MB	£36.40
256MB	£59.95
512MB	£199.99
Digital Card Readers	Price £
SmartMedia USB	£13.99
Memory Stick USB	£13.99
CompactFlash USB	£13.99
MMC/SD USB	£13.99
USB2.0 8in1	£17.99

OLYMPUS

XD Cards	Price £
64MB	£16.99
128MB	£35.99
256MB	£86.83

SanDisk

CompactFlash	Price £
64MB	£15.99
128MB	£25.99
256MB	£49.01
512MB	£98.01
2 x 64MB	£28.43
SanDisk Memory Stick Pro	Price £
256MB	£76.99
512MB	£206.53

Integral

Compact Flash	Price £
64MB	£13.99
128MB	£16.99
128MB i-Pro	£29.12
256MB i-Pro	£53.20
512MB i-Pro	£114.75

FUJIFILM

XD Cards	Price £
64MB	£17.99
128MB	£39.99
256MB	£93.10

SONY

Memory Stick	Price £
64MB	£29.99
128MB	£43.68
256MB	£89.60
Memory Stick Duo	Price £
64MB	£44.50
128MB	£59.99
Coming Soon - 256MB & 512MB Memory Stick Pro Duo	

Prices shown are inclusive of VAT & duties where applicable and are accurate at time of going to press. We reserve the right to change prices, please check the website for up-to-the-minute pricing. All trademarks used within this advertisement are fully recognised and are for illustrative purposes only.

Delivery & Insurance from £2.95. Many more products are available online: www.mymemory.co.uk or call 01534 789922

WE ALSO STOCK LOW PRICED UNBRANDED MEMORY CARDS & RECORDABLE MEDIA INCLUDING DVD & CD (please see our website for full details)

187 EDGWARE ROAD
126 EDGWARE ROAD
MARBLE ARCH, LONDON W2

DIGITAL STILL CAMERAS

SONY



DSC U30	£149
DSC P32	£149
DSC P52	£160
DSC U80	£185
DSC P72	£200
DSC P92	£269
DSC P8	£240
DSC P10	£299
DSC P12	£320
MVC FD 200	£249
MVC FD 500	£499
DSC F77	£319
DSC FX77	£359
DSC VI	£429
DSC F717	£539

CANON POWERSHOT

PSA300	£160
PSA70	£239
PSA45	£349
PSA50	£385
PSG3	£479
PSG5	£499
PSA80	£279

IXUS

IXUS V2	£249
IXUS V3	£299
IXUS II	£355
IXUS I	£239
IXUS 400	£317

**K.K.
ELECTRONICS**

DIGITAL STILL CAMERAS FUJI FINEPIX



A202	£128
A204	£165
A203	£179
A303	£235
2800	£199
F401	£295
F410 (Premium Kit)	£349
S304	£295
F601	£349
M603 (with cradle)	£309

KODAK

LS443	£299
-------	------

CAMCORDERS

PANASONIC DIGITAL

NV DS60	£320
NV DS65	£399
NV GS10	£399
NV GS30	£440
NV GS40	£480
NV GS50	£499
NV GS70	£739
NV MX500	£1099

Mail Order Hotline
020 7723 1436
020 7402 4592
www.kkelectronics.co.uk

CAMCORDERS SONY MINI DV



DCR PC 120 £799

DCR TRV 14	£375
DCR TRV 19	£405
DCR TRV 22	£479
DCR TRV 33	£549
DCR TRV 60	£799
DCR TRV 80	£899
DCR PC 103	£565
DCR PC 105	£715
DCR PC 120	£799
DCR IP1	£899
DCR IP55	£999
DCR IP220	£1099
DCR PC330	£1049
DCR TRV 950	£1299

SONY DIGITAL 8

DCR TRV 145	£275
DCR TRV 245	£299
DCR TRV 250	£339
DCR TRV 355	£439

SONY ANALOGUE

CCD TRV 218	£229
-------------	------

Photo Mugs

- Printed with your picture in Full Colour
- Dishwasher, Microwave & UV Proof
- Minimum order just ONE
- Ideal Gift for Birthdays, Weddings, etc
- Very affordable - only £8.95

for catalogue & order form
please call (local rate)

0845 120 8128

or e-mail

info@mediatec-uk.com

www.mediatec-uk.com



Foto Station

Photographic & Digital Imaging Center

True photographic prints
from digital media
On Site or Online.



Branches at:
Blackfriars - 020 7329 7755
Rushley - 01895 674 444
Harrow - 020 8909 2809

e-mail: express@fotostation.co.uk
web: www.fotostation.co.uk



The Old School House Residential Photographic Courses

Weddings, Seascapes, Landscapes,
Pictorial, Natural History, Business, Video,
Digital and Portraiture.

Suitable for all levels.

The Old School
House
Walton West
Haverfordwest
Pembrokeshire
SA62 3UA

Tel: 01437 781117
Email: ianbateman@aol.com

Two day residential courses in the heart of
the Pembrokeshire National Park.

Run by Len Bateman FMPA FMPA(V)
one of Britain's most successful
Professional Photographers, with over
25 years experience.

Telephone now for your free colour brochure.
www.photocourses.co.uk



picstop.co.uk

0870 055 5552

CHECK WEBSITE FOR CURRENT PRICES



CARD READERS

FROM £9.80

Single Slot Card Readers available in the following formats: Compact Flash, SmartMedia, SD/MMC, XD & MS

Card Readers	
SmartMedia	9.80
CompactFlash	9.80
Memory Stick	9.80
Secure Digital	9.80
xD	15.95
6in1 USB 1.1	13.95
6in1 USB 2.0	18.75

Compact Flash	
32MB	12.95
64MB	13.70
128MB	21.90
256MB	40.90
512MB	91.50
1GB	197.50

SmartMedia	
8MB	9.90
16MB	8.50
32MB	10.99
64MB	12.50
128MB	26.10

Secure Digital	
32MB	17.95
64MB	21.00
128MB	34.40
256MB	58.50
512MB	234.50

Multimedia	
32MB	12.50
64MB	16.50
128MB	31.50

SanDisk Compact Flash	
32 MB	15.50
64 MB	16.50
128 MB	24.99
256 MB	49.50
512 MB	95.80
1GB	199.00

SanDisk SmartMedia	
128MB	29.50

SanDisk Secure Digital	
32MB	17.50
64MB	23.90
128MB	39.90
256MB	61.50
512MB	168.00

LEXAR CompactFlash 8x	
32MB	14.50
64MB	17.50
128MB	24.90
256MB	49.90

LEXAR CompactFlash 40x	
256MB	60.00
512MB	124.90
1GB	258.00
2GB	492.00

LEXAR Memory Stick	
32MB	17.50
64MB	24.90
128MB	36.90
256MB	74.99

LEXAR Memory Stick Pro	
256MB	84.00
512MB	189.00
1GB	399.00

LEXAR Card Readers	
SmartMedia	14.90
CompactFlash	14.90
Memory Stick	14.90
Secure Digital	14.90
6in1 USB 2.0	27.80

SONY Memory Stick	
64MB	33.50
128MB	46.50
256MB	88.90

xD Memory	
32MB	13.95
64MB	21.97
128MB	36.50
256MB	87.50
512MB	149.90

OLYMPUS xD Memory	
64MB	23.99
128MB	42.30
256MB	90.50
512MB	159.50

USB Memory Pen Drive	
64MB	19.50
128MB	29.50
256MB	57.80
512MB	109.00

Battery Chargers	
Hahnel AA Powerstation 2350mAh	37.50
Unipex AA Ultra Fast Charger 2100	25.80
Hahnel AA Charger 2000mAh	13.50
Ansmann DigiSpeed 4 Charger	48.50
Ansmann Traveller	43.50

DVDR	
Princo DVD-R 1x	18.70
Princo DVD-R 4x White Lbl Blue	22.20
Datawrite DVD-R 4x Yellow	24.50
Bulkpack DVD+R 4x	20.25
Disc Rite DVD-R 4.7GB	28.50
Mirror DVD-R	1.50

Generic Digital Camera Batteries	
Nikon EN-EL1 700mAh	19.50
Nikon EN-EL2 1000mAh	19.50
Minolta NP250 750mAh	19.50
Olympus LI-10B 1000mAh	19.50
Fuji NP 40 LB 600mAh	19.50
Fuji NP 60 LB 600mAh	19.50
Fuji NP 80 LB 1200mAh	19.50
Fuji NP 120 LB 1400mAh	19.50
Canon BP 511 1250mAh	19.50
Canon NB 1L 700mAh	19.50
Canon NB 2L 600mAh	19.50
Canon NB 3L 900mAh	19.50

Rechargeable Batteries	
Ansmann AA 2200 mAh 4-Pack	11.90
Unipex AA 2300 mAh 4-Pack	12.40
Hahnel AA 2350 mAh 4-Pack	14.50
Hahnel AAA 800 mAh 4-Pack	7.90
Hama AA 2000 mAh 4-Pack	6.00

DIGITAL CAMERAS

Canon	
A300	189.00
A70	249.00
A80	299.00
Ixus 400	345.00
Ixus II	279.00
IS	539.00

A204	
A210	164.00
A310	239.00
2800	108.00
S3000	249.00
F410	315.00
S6000	359.00
F700	445.00

OLYMPUS	
C150	119.00
C220	144.00
C350	173.00
C750	375.00
C5050	422.00
MJU300	245.00
MJU400	309.00

Nikon	
2100	179.00
3100	248.00
4300	329.00
SD	307.00
5400	529.00
5700	769.00

CX6200	89.00
--------	-------

KD-25	89.00
-------	-------

T: 0870 055 5552

W: www.picstop.co.uk

F: 0870 055 5553

E: sales@picstop.co.uk

Goods and prices are subject to change. All prices include VAT @ 17.5% PAOP. Visit www.picstop.co.uk for current prices on all products. Post & packing from only £1.50. Next day service available. All trademarks acknowledged.

www.TOPTONERS.com
Freephone: 0800 085 8294

Jet Tec Cartridges and Consumables Digital Memory

For Epson

from	
S020025	£4.50
S020089	£6.50
S020093	£4.50
S020108	£4.50
S020110	£6.50
S020138	£6.50
S020187	£4.50
S020191	£6.50
S020193	£6.50
T003	£4.50
T005	£6.50
T007	£7.50
T008	£8.50
T009	£8.50
T013	£4.50
T014	£6.50
T017	£7.50
T018	£8.50
T019	£4.50
T020	£6.50
T026	£7.50

from

T027	£8.50
T028	£7.50
T029	£8.50
T032 blk	£11.50
T032 clr	£9.00
T033	£8.99
T036	£7.50
T037	£8.50
T038	£7.50
T039	£8.50
T040	£7.50
T041	£8.50
T042	£9.00

For Canon

from	
BCI-3 BK	£6.49
BCI-3 CM/Y/PC/PM	£5.49
BCI-6 BK	£5.49
BCI-6 CM/Y/PC/PM	£5.49
BCI-21K	£3.99
BCI-21C	£5.99
BCI-24K	£5.49
BCI-24C	£5.49



Also HP, Lexmark, etc. cartridges available from £3.49. Please see website for full range of ink cartridges.

All prices include VAT & **FREE UK recorded 48 hour delivery**

Multi-buy Jet Tec compatible prices stated. Terms & Conditions apply. E&OE.



FREE monthly Prize Draw
... with an Epson Printer!!!

www.flash-card-store.co.uk

0870 748 6141



All in 1 USB Card Reader

Supports: Compact Flash, SmartMedia, MMC, SD, Memory Stick & XD Cards

£29.99



MemoryStick

32Mb £18.99	64Mb £24.99	128Mb £36.99
-------------	-------------	--------------

XD Cards from:

64Mb £22.99	128Mb £39.99	256Mb £88.00
-------------	--------------	--------------



Compact Flash Cards

64Mb £13.99	128Mb £20.99	256Mb £39.99
-------------	--------------	--------------

SD & MMC Cards from:

64Mb £15.99	128Mb £29.99	256Mb £59.99
-------------	--------------	--------------



HELP!

Lost your pictures?



www.flash-card-recovery.co.uk

Other cards & sizes available
All prices include VAT

Prices subject to change. Check website for latest prices. E&OE

Winter landscapes!

How to get dramatic landscape shots from winter scenes – including snow, rain and wind!

www.photolibrary.com

Next month

ON SALE
Monday
29th
December

IN-DEPTH KIT REVIEWS



CAMERAS

Sony DSC-U50
Canon Ixus i
Hewlett-Packard 945
Pentax Optio 555
Fuji FinePix S7000

LAB TEST

We rate and review
the UK's leading online
photo developers

PLUS New software

PLUS FREE! An exclusive
DCM Camera pouch!

PHOTOSHOP

Discover how to
simulate traditional film
grain effects, and learn
how to watermark
your images

PAINT SHOP PRO

Replace and enhance
bland skies in your
photos, and design a
fantastic photo
calendar for 2004

SHOOT

We continue our series
on getting started with
your new camera –
don't miss it!
PLUS much more...



Top ten UK museums

Don't fancy the cold
weather? Check out our
guide to the best indoor
photographic locations!

Digital Camera Magazine

Future Publishing, 30 Monmouth Street, Bath, BA1 2BW
+44 (0)1225 442244 www.dcmag.co.uk
Customer services 0870 444 8475

The team...

Adam Evans Editor
editor.dcm@futurenet.co.uk
Andrea Thompson Deputy Editor
andrea.thompson@futurenet.co.uk
Rob Bowen Art Editor
rob.bowen@futurenet.co.uk
Kai Wood Deputy Art Editor
kai.wood@futurenet.co.uk
Elizabeth Raderecht Operations Editor
elizabeth.raderecht@futurenet.co.uk

EDITORIAL CONTRIBUTORS

Pete Martin, Rachel Spooner, Mark Harris, Steve Bavister,
Rod Lawton, Derek Lea, Barry Jackson, Lori Davis,
Aidan O'Rourke, Chris Schmidt, Tim Daly, Steven Raynes,
Rob Carney, Mark Sparrow

PHOTOGRAPHIC CONTRIBUTORS

(Where not credited inside) Future Network Photo Studio,
Photolibrary.com, Rex Features UK

Advertising

Michelle Blackwell Ad Manager
020 7317 2600 michelle.blackwell@futurenet.co.uk
Carol Singleton Senior Sales Executive
020 7317 2427 carol.singleton@futurenet.co.uk
Zahid Patel Classified Sales Executive
01225 442244 zahid.patel@futurenet.co.uk

New media

Joseph Russ Senior New Media Editor
joseph.russ@futurenet.co.uk
Ali Jennings New Media Editor
ali.jennings@futurenet.co.uk
Steve Pashley Online Editor
steve.pashley@futurenet.co.uk
Sarah Williams Software Copyright Co-Ordinator
sarah.williams@futurenet.co.uk

Circulation and marketing

Fiona Tully Marketing Manager
Clare Tovey Production Manager
Katty Pigott Production Co-ordinator
Marie Spicer Subscriptions Executive
Mike Thorne Team Buyer

International licensing

Richard Bean International Licensing Manager
www.futurelicensing.com

Senior management

Nick Merritt Managing Editor
Dave Taylor Group Publisher
John Weir Publishing Director



The Future Network produces carefully targeted specialist magazines for people who share a passion. We aim to satisfy that passion by creating titles offering value for money, reliable information, smart buying advice and which are a pleasure to read. Today we publish more than 90 magazines in the UK, US, France and Italy. Over 80 international editions of our magazines are also published in 28 other countries across the world. The Future Network plc is a public company quoted on the London Stock Exchange (symbol: FNET)

Non-executive Chairman Roger Parry
Greg Ingham Chief Executive
Group Finance Director John Bowman

Printed in England

© Future Publishing Ltd 2003

Disclaimer Getup&go section and tear-out factsheets are published in UK editions of the magazine only. All contributions to **Digital Camera Magazine** are accepted on the basis of a non-exclusive worldwide licence to publish or license others to do so, unless otherwise agreed in advance in writing. We reserve the right to edit letters. We cannot accept liability for mistakes or misprints, or any damage to equipment or possessions arising from use of this publication, its discs or software. Due to unforeseen circumstances, it may sometimes be necessary to make last-minute changes to advertised content, for magazine and discs.

Don't miss out – 3 ways to subscribe...

1

Turn to page 94 for our special Christmas offer: choose a free book worth £12.99, or a 40% saving!

2

Visit our website at www.dcmag.co.uk and subscribe securely and quickly online

3

Call 0870 444 8680 with your details and speak to one of our customer advisors

THE BIG PICTURE



Gene Simmons with Santa toy

By Lynn Goldsmith

Date 1980

Here's proof positive that Christmas portraits don't have to be all sweetness and light. This shot of the lead singer of Kiss brilliantly shows what the addition of a simple prop can achieve. Phew, rock and roll!

THE BIG PICTURE

03

Life's an open Book.



The most affordable iBook G4 ever, designed for your digital lifestyle.

Introducing the new iBook G4

The world's best-loved consumer portable gets an impressive makeover with a superfast PowerPC G4 processor, a new architecture, a slot-loading optical drive and enhanced wireless networking capabilities. Plus with its extra-long battery life, compact size and ultralight weight, the iBook G4 can accompany you everywhere. And you have a choice of 12.1-inch or 14.1-inch displays, turbocharged 800MHz, 933MHz or 1GHz PowerPC G4 processors.

You'll never run out of cool things to do with your iBook. Pop open the lid and you'll find everything you need to surf the Internet, create cool Web sites, share photos, build a music library, edit video movies, send and receive emails, solve maths problems, write reports and more. Since all retail iBook models come with a Combo drive (DVD-ROM/CD-RW), you can burn your own music and photography CDs.

John Lewis – Peace of mind

In addition to the quality and value that's part of the package when you buy at John Lewis, a free two-year guarantee is included too.¹

All under one roof

John Lewis department stores stock the complete range of Apple products including the brand new and faster iBook, iMac, Powerbook and Power Mac G5 series. You'll also find a huge choice of software, monitors, compatible printers, scanners and other accessories.

Knowledgeable service

Customers return to John Lewis time and again because they know the sales assistants are fully trained by Apple. This means that you, the customer, can rest assured that you will get the best product to suit your needs.

Buying made easy

Buying Apple equipment from John Lewis is one thing. But the story doesn't end there. Not only will your Apple be delivered free but installation professionals can help you set up your computer for a small charge. All in all, John Lewis offers a service that is designed to make buying and using your Apple easier than ever.

Want to know more? Visit your nearest John Lewis.



iBook G4 comes with Mac OS X version 10.3 "Panther"

Panther is Apple's easy-to-use, next-generation operating system with over 150 new features, iron clad security and solid operation.

John Lewis
www.johnlewis.com



1. Compatible ISP and telephone services required. Some ISPs may not support all iBook features. iBooks will function according to iBook standards if iBook services are not available. Actual modem speeds lower; speed dependent on connection type and other factors. © 2004 Apple Computer, Inc. All rights reserved.

SEE THE POWER OF
**SUPER
CCD**

AT

www.moredetail.co.uk

& WIN PRIZES!

- Super CCD HR sensor with 6.3 million effective pixels, delivering 12.3 million recorded pixels
- 6x optical zoom lens
- Spot metering
- VGA 30fps movie mode
- Raw file mode
- USB 2.0
- 1cm Super Macro mode
- 235,000 pixel TTL electronic viewfinder

6 megapixels. And then some.

From the moment you pick up this exciting new camera, you'll realise that you are holding a sophisticated photographic tool designed to not only deliver detail, but to give you the control and flexibility you demand.

The award-winning Super CCD technology captures six million pixels with its unique octagonal photodiodes; the S7000's powerful processing then produces an exquisitely smooth 12 million pixel image with extra 'bite' in the detail. And with all those extra pixels, you can confidently print at much bigger sizes without worrying about 'blocky' results.

The Super CCD HR chip delivers beautiful photographic quality, whilst the 1/10,000 second top shutter speed and lightning-

quick responses will freeze even the most elusive subjects. Every aspect of the FinePix S7000 Zoom has been engineered for responsiveness and total reliability; all the camera's components are optimised to work together, ensuring you get the razor sharp, richly-detailed results your photography deserves. From the stunning 35-210mm* F2.8 Super EBC lens to the full VGA (640x480 pixel) movie capability at 30 frames per second, this is a camera that simply doesn't know the meaning of compromise. And it's all safely wrapped in a tough, but lightweight body that offers all the advantages of a conventional SLR with none of the limitations, weight or cost. The new FinePix S7000 Zoom: 6 million pixels is only the start.



FinePix S7000 Zoom

FUJIFILM DIGITAL
**Loaded with
INNOVATION™**

* 35mm equivalent